## TEXTILE BULLETIN

VOL 64

JUNE 1, 1943

NO. 7

## CLEAN TOP ROLLS-NO BLACK YARN

When Using-

NON-FUDO OLL IN U.S. PAT. OFFICE& FOREIGN COUNTRIES

Because NON-FLUID OIL stays in roll necks of spinning frames instead of creeping out to rot roll covers and stain yarn.

Used in 7 out of 10 mills, saves its own cost by preventing blackened yarn. Outlasts oil 3 to 5 times.

Write for Instructive Bulletin

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Gone are those days of too little, too late \* \* \* For nineteen months American Industry had its sights set on what it will take to win this war, and for a good many of these months it has been delivering—enough, and on time.

SONOCO is one of the American Industries that is meeting war schedules—and, by superhuman effort, has also kept abreast of non-war demands.



SONOCO MAKES EVERYTHING IN PAPER CARRIERS

SONOCO PRODUCTS COMPANY

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## are Time-Tried and Mill-Proved

You can depend on Dayco Synthetic Roll Coverings for more uniform yarn at lower cost per month-of-use — because they are time-tried veterans of mill service since 1938. Furthermore, only Daycos are backed by years of hard won "know-how" in the development of synthetic rubber products for industry.

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- less ends down.
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are individually made to withstand the tremendous and continuous service to which they must necessarily be subjected today on a 24-hour run per day.

They are correctly designed to produce the many different finished fabrics called for by today's demands in the most economical manner and without interruption. Most of them are so outstanding as to be protected by patents (unprocurable from any other source).

Our four large plants located in Philadelphia, Pa., Greenville, S. C., Atlanta, Ga., and Montreal, Canada are dedicated today 100% to war production, and if there is any way in which we can co-operate with any mills running on fabrics being used by the government, we are anxious to be called upon for any assistance we can render.

BRANCH OFFICES ALL OVER THE WORLD

Steel Heddle Mfg. Co.

## WHAT!

### FLUID DRIVE A PC BOAT?



One of the U. S. Navy's new fluid drive equipped PC boats seeks out enemy subs.

SOMEWHERE AT SEA this minute—now, U. S. Navy PC boats are relentlessly hunting down enemy subs.

Laden with depth charges and carrying an additional armament of torpedoes and anti-aircraft guns and cannon, they knife swiftly, silently through dangerous waters.

American Blower Fluid Drives on these new PC boats (as well as on many other types of Navy craft) prevent transmission of torsional vibrations and shock from powerful Diesels to delicate machinery, synchronize multiple engine speeds and permit rapid clutching and declutching.

Building equipment to Fluid Drive warships, submarines and cargo vessels is among the important assignments for victory entrusted to American Blower.

After Victory the engineering skill and experience and American Blower's complete facilities for manufacturing, fabricating, welding, processing and assembling will be available to produce for you Fluid Drives, air handling equipment of all types and other ingenious products which will play a vital role in post-war world progress.



Cutaway view of American Blower Fluid Drive. Note: there is no mechanical connection between driving and driven members.

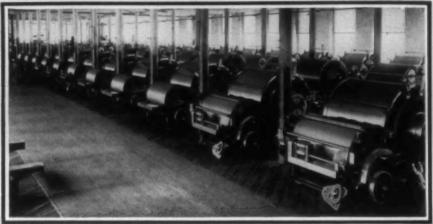


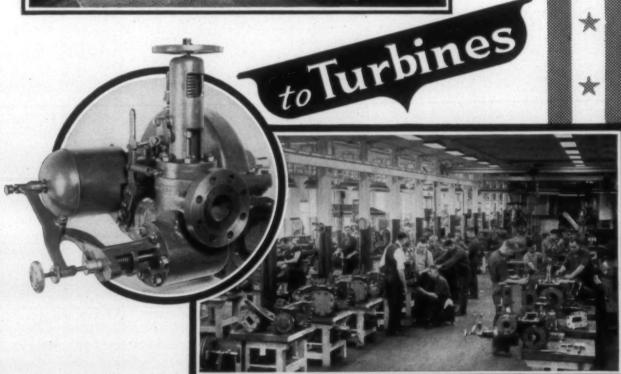
## AMERICAN BLOWER

AMERICAN BLOWER CORPORATION, DETROIT, MICHIGAN CANADIAN SIROCCO COMPANY, LTD., WINDSOR, ONTARIO Division of AMERICAN Radiator and Standard Sonitory Corporation



## fromTextiles





Un the floor where cotton cards used to be assembled we are now producing mechanical-drive Turbines.

This is only one of many conversions that have been made in our plant in furtherance of the war effort. These Turbines are used aboard ships and in Uncle Sam's busy factories for the production of vital war goods.

P. S. Steam Turbines are especially valuable in high octane gas refineries and synthetic rubber plants where reduction of fire hazard is imperative.

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for accurate, reliable, and comprehensive information on Peroxide Bleaching of all fibres...by all Methods and Procedures including all systems of Continuous Bleaching.



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#### FUNGICIDE G

For mildew-proofing all types of military fabrics—insect netting, jungle canopies, tentage, sleeping bags, webbing, camouflage netting, etc. Meets government specifications. Non-toxic, non-irritating.

#### AQUAROL\*

For producing a water-repellent finish on uniform cloths, overcoatings and other military fabrics — used in a single bath treatment with Fungicide G to impart mildew resistance and water repellency.

Reg. U. S. Pat. Off.



Newark, New Jersey

Arkansas Co.mc.

## Labor Union Racketeers

From an address by Eddie Rickenbacker before the New York State Legislature

HY should not our Congress show the common sense and intestinal fortitude now and clarify our labor laws so that millions of innocent men and women will have the same protection from our Government as do the racketeers?

The demand for real sacrifice is from the inarticulate mass of American fathers, mothers and daughters, while special privileges and licenses are granted to the labor racketeer, the labor profiteer and the labor loafer.

I say you cannot have national unity unless the leadership of the nation sets an example of unity, and that leadership should include industry, labor and government.

I claim that I am a real friend of labor, and that the men who are attacking me are labor's enemies.

They are enemies of labor in the same way that a little clique of selfish men were the enemies of the New York Stock Exchange or the utilities. The number of crooks in Wall Street was small, but the vengeance of an outraged people did not discriminate.

What has happened to the Stock Exchange and the utilities is going to happen to the unions. The storm of public resentment is rising. If you want a measure of how fast it is rising just listen to the cries of pain and anger that come come from the self-appointed labor leaders in reply to my public remarks.

The racketeer is not something that just happens. He grows out of a rotten condition in public life. Al Capone was a thief, a gangster and a murderer. But Al Capone was not a cause. He was a result. He grew out of the greed and lust for power of a corrupt political machine.

There would have been no Al Capone if there had not been protection from the politicians of the city of Chicago and the state of Illinois.

There would be no union profiteers, no union abuses, if it had not been made clear by our public authorities that there is today one standard of justice and public defency for the common man and another standard for the union few.

I speak on behalf of the millions of honest men and women in unions who want their unions to stand clean and respected before the bar of American public opinion.

I speak on behalf of the future leaders of the United States—our boys in Africa, in Australia, in Guadalcanal, New Guinea, the Aleutians, Iceland, England, China and India.

I say that this bloody war can be won only if we at home show that we deserve to have it won. Only if we have the intestinal fortitude to throw out the profiteers, punish the shirkers, and demand that there shall be a single, not a double, standard of justice in the United States—an even distribution of sacrifice on the home front imposed with a degree of political courage at home comparable to the moral and physical courage being shown by our men abroad

I am shocked to find that our officials in Washington have omitted challenging a group known more commonly as labor racketeers of the "graft" age, and I spell it with a "g" and not a "d."

And I reiterate again that our Congress should see fit to introduce and pass such legislation to—first, upon his release or discharge, any member of our armed forces can be employed by any employer without having to join any organized labor unions. Second—upon his employment he shall have equal voting rights with

any employee in any union and any employee and management plan of the employer. Third—his seniority in relation to other employees of draft age should date as of the day he enlisted or was inducted into this country's service.

I definitely feel that our situation here at home is most serious, and by such legislation our Congress could free labor from those racketeers and parasites that are right now hindering the effort of our workers to do the best they can to win this war. Such legislation will insure all the members of our services an equal opportunity right now as well as after this war is over with those who stayed at home in industry.

What better bonus could we give our service men than the elimination of their having to buy the right to work in their own country on their release or discharge from the service?

Why should they have to pay exorbitant membership fees demanded by those unions working under a closed-shop agreement? And what better bonus could we give to them than to eliminate their having to pay dues for the privilege of keeping their job?

Briefly, why shouldn't a man's honorable discharge or release from the service of his country be all he would henceforth need as a union card when he returns to work for himself and his family after having worked for all of us so willingly and risked his life in our behalf? For there will be millions of young men returning home who have never had a job, or who have never been forced to pay tribute to men who never did an honest day's work in their lives.

We all must realize that this war we are fighting is a total war. It is a war in which all of us can get hurt—for which all of us will have to pay, and—in which all of us will have to work and fight—in order for all of us to win.

I know I have been accused of being the representative of the National Association of Manufacturers—the automotive industry—the American First Committee—and even accused of being a Fascist. Frankly and sincerely, I represent no person or persons—group or groups—color or creed—nor have I any political ambitions—I speak for myself alone, but echo the sentiments of millions.

And to Congress I say again—face the facts and show the traditional American intestinal fortitude by legislating this cancerous element from our midst.

Why should these racketeers be immune from reporting their incomes or paying taxes on their tributes from the millions? Why should not our Congress bring about compulsory incorporation, public accounting of their funds and forbid political contributions from their ill-gotten gains, if they are honest in their intentions?

I have been laboring for 40-odd years—since I was 12 years of age—in many lines of endeavor. I come from humble parents. I know the value of honest labor. I have served labor as well as employer.

And I know just how serious the situation is from the thousands of letters I have received from men and women in many industries from all parts of the United States—both union and non-union—who have urged and pleaded that I bring the facts before the public before it is too late.

And to those millions of honest men and women war workers goes my heartfelt thanks—but those whom the shoe fits I say wear it.





## TEXTILE BULLETIN



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## South Carolina Cotton Manufacturers Elect B. F. Hagood President

THE Cotton Manufacturers Association of South Carolina, in its annual meeting held May 26 at Spartanburg, named B. F. Hagood of Easley as its president for the next year. Mr. Hagood, president and treasurer of Glenwood Cotton Mills, succeeds James A. Chapman, president of Inman Mills, who declined re-election because of his duties as new first vice-president of the American Cotton Manufacturers Association.

The convention took place at the Spartanburg Country Club, with a good majority of the membership present.

Past, president and future problems of the state's cottontextile industry were discussed in the retiring president's address and the committee reports.

#### **Hugh Comer Speaks**

Hugh Comer, president of the American Cotton Manufacturers Association, proposed that the membership enter into a safety program and contest with the other state asso-

ciations in the Southeast, and this offer was accepted by the South Carolina group. Another speaker was E. A. Smyth, III, president of the North Carolina Cotton Manufacturers Association.

Other features of the meeting were the report of Dr. W. P. Jacobs, executive vice-president and treasurer; presentation by Walter S. Montgomery on behalf of the association of a silver tray to James A. Chapman; and memorial resolutions concerning Weldon F. Twitty, Captain Ellison A. Smyth and J. P. Abney.

The association's board of directors met prior to the luncheon and general meeting, and briefly following it. The Print Cloth Group of Cotton Manufacturers also met following the general meeting.

In his address, Retiring President Chapman gave a general review of various happenings which had affected the association's membership during the past year. Excerpts from his talk follow:

"First, in regard to state matters, we came through the meeting of the Legislature without being hurt. In fact, I know of no legislation that was passed that was detrimental to us.

#### Selective Service

"Your association, through a committee headed by Mr. Henry, last summer conferred with the selective service officials of the state and was able to work out a very satisfactory definition of essential jobs in the textile industry. As the application of the selective service law is in the hands of the local boards, this committee was able to get General Holmes B. Springs to issue to these boards a list of essential jobs in our industry and thereby get the different boards

acting more uniformly in the matter of deferments. It was months after this that Washington finally put out its list of essential jobs in our industry.

"The association has also been actively helping our different members in the matter of priorities and has worked with the other associations in trying to have this matter straightened out. In this I think we have been successful, for as you all know, WPB has at last granted us a rating of AA-2X.

"As most of you know, there was a movement on foot which would have virtually prevented the shipment of flat cotton into this section, and I think it was due to the good work of the representatives of this association, headed by our exec-



Officers and directors of the Cotton Manufacturers Association of South Carolina, elected during the group's one-day annual convention May 26 at the Spartanburg Country Club, are pictured above as follows: First row, left to right, George M. Wright, Great Falls, director; J. E. Sirrine, Greenville, director; B. F. Hagood, Easley, new president; James A. Chapman, Spartanburg, retiring president and director; S. H. Swint, Graniteville, vice-president. Second row, left to right. M. L. Cates, Spartanburg, director; E. R. Stall, Greenwood, director; Fred W. Symmes, Greenville, director; and W. P. Jacobs, Clinton, executive vice-president and treasurer. Not included in the picture were Miss A. L. Norman, Clinton, acting secretary; C. B. Nichols of Anderson, J. B. Harris of Greenwood, B. B. Gossett of Charlotte, N. C., H. K. Hallett of Paw Creek, N. C., and C. B. Hayes of Lyman, all directors.

utive vice-president, working with the manufacturers of other states, which prevented the Office of Defense Transportation from issuing this order. This order would have practically forced us all to use high density cotton.

#### Ceiling Prices

"It was our executive vice-president who first foresaw the threat of the revision of ceiling prices by the OPA from the cost basis to an earnings basis. And it was our association that first called this to the attention of the Institute, the American Cotton Manufacturers Association and other groups and got them aroused. Our attitude in this matter is the same as our attitude in other Federal matters; namely, starting the play and passing the ball to the proper agency to carry it on. In this case we psased the ball to the Cotton-Textile Institute which was the proper agency.

"Last spring we lost our efficient secretary, Mr. Sadler Love, who went into the service as a private. We are glad to report that he is now a first lieutenant and is making good. We did not attempt to replace him with a statistician who could keep our records up to date. All of the statistics we have continued to receive and they have been properly filed, and I think that during the next year the association should see to it that these records are brought up to date and that the public distribution of this material be resumed, because the more the public knows about our industry, the more, I think, it will be appreciated.

"Our executive vice-president has been responsible for the suggestion of a booklet for general distribution telling the story of essential cotton textiles, emphasizing the part which cotton textiles play in the war program, in our civilian life, in bagging, garments and various other fields. The thought originating within our association has been accepted by other organizations in the textile field and such a booklet will be distributed throughout the country without any cost to the Cotton Manufacturers Association of South Carolina. The purpose is to discourage encroachment upon the field of cotton fabrics by competitive fabric products.

"Our industry does not have a complete unbiased study of wages, and factors contributing to wages. Realizing the need for such a study, the industry has induced Dr. William Hays Simpson, professor of political science at Duke University, to conduct a survey on the subject and he is bringing out a book which is authentic and shows an accurate cross section of the industry. It is an unbiased story and we

hope will be of tremendous value as a reference in hearings and actions on this and kindred subjects in the years to come. This authentic story may easily take the place of some of the more radical books which have been used by some of the Federal agencies in recent years. We think a copy of this should be placed in all the important libraries.

"Our association has much to be proud of during the past pear. An unsually large number of mills who are members of this association have received the coveted Army and Navy "E" award for excellence. We congratulate them

and would like to recognize them at this time.

We are also proud of the splendid records that have been made in the matter of the sale of War Savings Bonds during the past year. Most of our mills entered into the program to secure at least 90 per cent of the employees taking these bonds and asked them to participate in them to the extent of 10 per cent of their wages. The number of textile plants, including branches separately, that entered into this campaign was 184. The approximate number of employees participating in the payroll plan was 93,470, and of these employees there were 64,660 who were allotting at least 10 per cent of their wages for the purchase of bonds through the payroll savings plan. Sixty of our textile plants reached the goal of the Treasury Department to have at least 90 per cent of their employees participating in the plan, and 33 textile plants reached the higher goal of having at least 90 per cent of their employees participate in the plan to the extent of 10 per cent of their wages. I think this is an achievement that we can all be proud of.

#### Importance of Cotton

"We in the textile industry live so close to cotton that I am afraid we have never realized its importance. Did you ever stop to think that when you come into this world the first thing they put on you is a piece of cotton goods—and from that day on you wear and use cotton both day and night up until the time you leave this world? Even then you are clothed to a certain extent in cotton. In this war effort, only steel is more important than cotton. The greatest dollar value of any one thing shipped on Lend-Lease to North Africa was cotton textiles. When we realize what an important part of all the industries in South Carolina textiles represent it is very sobering. I, of course, knew that textiles was the biggest industry in South Carolina, but I am frank.

(Continued on Page 40)

#### South Carolina Textile Foundation Is Proposed

THE Textile Foundation of South Carolina, with a \$1,-000,000 fund as a goal, is now in the process of being formed by industry executives in that state.

The movement was publicly launched May 26, when textile leaders were gathered at Spartanburg for the annual meeting of the South Carolina Cotton Manufacturers Association. The foundation does not plan to use any of the \$1,000,000, but only interest derived from investing it, which will amount to between \$15,000 and \$20,000 each

A paper presented to the textile leaders mentioned a possible post-war emergency which would bring about an inevitable period of change in which many of the industry's functions and processes may be radically reorganized. It pointed out that the greatest need of the industry today is alert, open-minded, smart, versatile and resourceful leadership—making necessary constant research and study. The Textile Foundation of South Carolina would have the purpose of:

1. Conducting such research as is found necessary to develop new uses, new processes, new products and new leaders to enable the industry to face the changes of the years to come.

2. Supplementing present education and training in colleges and secondary schools, and particularly at the Textile (Continued on Page 41)

# Get Peak Production with PIVOTAN

LEATHER BELTING

Pivotan Leather Belting is helping the textile industry meet its vital war production schedule, by reducing power losses and time lost for replacement and repairs.

Pivotan can do this because of its greater flexibility, durability and gripping qualities—the result of an exclusive tanning formula developed by us after years of research.

More and more Southern mills are depending on Pivotan for peak production. Try PIVOTAN, and see for yourself.

## Southern Belting Company-Atlanta

Warehouse

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Rubber Belting V-Belts and Sheaves Fiber and Metal

Rockwood-Southern Pivoted Motor Drives

**Distributors** 

Westinghouse Motors

Leather

Belting

IN

#### Guy Parmenter Is President of Georgia Cotton Manufacturers

Guy I. Parmenter, superintendent of Goodyear Clearwater Mills No. 3 at Atco, was named president of the Cotton Manufacturers Association of Georgia at the group's one-day meeting held in Atlanta May 18. He was elevated from the office of vice-president, and succeeded Julian T. Hightower, vice-president of Thomaston Cotton Mills.

H. Otis Ball, vice-president of Pepperton Cotton Mills, Jackson, and former treasurer of the association, was named vice-president. A. Illges, vice-president and treasurer of Swift Spinning Mills, Columbus, was elected treasurer, while Ted M. Forbes, executive vice-president, and Rupert Murphy, traffic manager, were re-elected to their posts.

A. B. Edge, Jr., of LaGrange, J. F. Fowler of Cartersville, J. M. Cheatham of Griffin, George E. Glenn, Jr., of Atlanta, and N. B. Murphy of Trion were appointed directors.

The association, meeting at the Atlanta Athletic Club, heard Governor Ellis Arnall discuss problems of the Southern textile industry. Mr. Hightower commended the manufacturers for doing an outstanding job in meeting conditions imposed upon them as a result of the war.

The group also discussed manpower problems and renegotiation of Government contracts, and paid tribute to member mills which have been awarded the Army-Navy "E" awards for excellence in production.

A resolution was passed in memory of members who died during the year, including the late L. H. Daniell, Brighton Mills, Inc., Shannon; Vaughn Nixon, Atlanta Woolen Mills; and John A. Mitchell, Jordan Mills, Inc., Columbus.

Reports showed membership of 120 Georgia textile companies with 3,043,938 spindles, 98.02 per cent of all the present spindles in Georgia, the highest membership record the association has ever had.

#### Belcher Joins Rodney Hunt Machine Co.

Rodney Hunt Machine Co. of Orange, Mass., announces that Harold H. Belcher has joined its organization to take charge of engineering and development work for the textile machinery division.

Mr. Belcher received his engineering degree from Massa-



chusetts Institute of Technology, class of 1925. Continuously since that time he has been actively engaged in machinery design for the textile industry. For the past two years he has been designing engineer for Proctor & Schwartz, Inc., of Philadelphia, Pa. Previous to that he was chief engineer and secretary of Philadelphia Drying Machinery Co. until this company was

combined with Proctor & Schwartz, Inc.

Mr. Belcher has designed many special machines used in the textile and other industries, and has many patents for new equipment and improvements to his credit. Rodney Hunt Machine Co. feels that the addition of Mr. Belcher to its staff assures continuation of the high degree of engineering service that this century-old concern has always maintained.

#### \$2,000,000 Research Program On National Scale Is Projected

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Industry-wide research and attendant financial collaboration in the textile industry on a national and unprecedented scale were foreshadowed May 27 when the board of directors of Textile Research Institute, Inc., unanimously approved plans for a five-point program of co-operative industrial research. The directors also approved a \$2,000,000 rund-raising project to support the program.

Announcement of the plans and their adoption was made by Fessenden S. Blanchard, president of the institute, following the board meeting at the Hotel Roosevelt, New York City.

Submitted to the board by its executive committee after several months of study and development, the plans, it was stated, "are a direct outcome of the growing recognition that the technical basis of the textile industry is rapidly being revolutionized." Declaring that there is no immediate need for intensive industrial research both for wartime needs and for the peace-time situation ahead, the executive committee stated that the program contemplated attacking both problems on a co-operative industrial basis. It was revealed that the program will be undertaken adjacent to, and in conjunction with, a recognized college or university to be selected.

In order to finance the program the board authorized the creation of a finance committee to seek from the industry a fund of \$2,000,000 at the rate of \$300,000 a year for a five-year period, plus a capital sum of \$50,000.

Members of the executive committee, whose report was unanimously accepted, are Fessenden S. Blanchard, Fuller E. Callaway, Jr., Robert E. Rose, Dr. Harold DeWitt Smith, Edward T. Pickard, W. D. Appel, Douglas Cr. Woolf and Stanley B. Hunt.

The five-point program of the institute comprises fundamental research in all major fibers both natural and synthetic; applied and processing research in each of the major branches of the industry; economic research; a research information service, and scientific training of picked graduate students. The committee's report placed special emphasis on the last-named in recognition of the growing need in the textile industry for research men of the broadest possible training.

The directors decided that the institute's program should include the industry as a whole and not concentrate on any one type of raw material—whether cotton, wool or rayon. The report emphasized the tremendous growth in the use of synthetic fibers and other developments which are breaking down the barriers which once existed in the industry. The primary need today, the directors stated, is for the broadest possible approach to the needs of the industry as a whole.

Describing the program as a "double-barrelled" one, aimed both at immediate and practical ends and at the same time giving adequate emphasis to the need for planning, preparation and action now on the evident peace-time problems to be faced by the industry, President Blanchard said that all major branches of the textile industry and their suppliers will be asked to participate in the financing and other aspects of the project.



## APPROVED COMPOUNDS FOR MILDEW-PROOFING

MILDEW-PROOF TYPE 2 (Cuprammonium)\*
MILDEW-PROOF TYPE 3 (Copper Ammonium Fluoride)\*

Two thoroughly dependable compounds for mildew-proofing; tested and proved by finishers of military fabrics. These products are approved for government work and widely used in treating U. S. service burlap and osnaburg.

MILDEW-PROOF TYPE 2 and TYPE 3 avoid solvent difficulties and are applicable to all vegetable fabrics (cotton, linen, jute, paper, sisal, hemp). Suited for mold, mildew and rot resistance under every climatic condition. Samples and further information upon request.

\*These two products, designated as Types 2 and 3 in a recent release by U. S. Army, meet all government specifications.



JACQUES WOLF & CO.

PASSAIC, N. J.

WAREHOUSES: Providence, R. I., Philadelphia, Pa., Utica, N. Y., Chicago, III., Greenville, S. C., Chattanooga, Tenn., Knoxville, Tenn., Charlotte, N. C., Milwaukee, Wisc., Columbus, Ga.

## Millitary Fabrics Possessing Potential Value for Civilian Uses

By ALLISON FITZGERALD - Part Four

The first three installments of this series dealing with the processing, dyeing and finishing of various textiles took up the treating of Army lightweight protective covering materials. The author now explains the treating of military fabrics which can be easily adapted to civilian use.

EATHERNECK twill made of viscose rayon and fabrics now being processed for our armed forces.

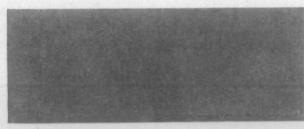
In our armed forces, this material is finding many valuable uses in clothing and outer garments due to its rigid construction, although it possesses a soft and full hand similar to a very heavy pure silk fabric.

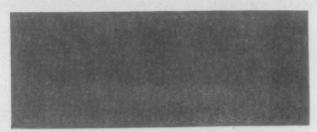
This article will cover its preparation for meeting desirable specifications for civilian as well as military uses. For civilians, this material could be used for athletic uniforms of all types and construction, construction and outdoor workers' cold weather wind breaker jackets, campers' sleeping outfits, general sports equipment demanding ruggedness with comfort, raincoating, as well as many other pos-

It is a type of goods that should be kept to top quality, both in yarn, construction, dyeing and finishing.

The Quartermaster Specification, P. Q. D. No. 38, defines the goods as "Cloth, Rayon Twill, Cotton Filling," and gives this construction for quality goods:

Width exclusive of selvedge	41 inches
Weight per square yard8	





Illustrated above are both inside and outside surfaces of leatherneck twill.

Thread	count	per	inch-warp240			yarn
Thread	count	per	inch—filling		2 or	

The breaking strength using the official A. S. T. M .-1x1x3 grab method should show:

Warpwise																			180	lbs.
Fillingwise						ď					4	,	è	 	÷				80	lbs.

#### Preparation of Greige Goods

The desirable operating procedure for handling these goods through the various wet processing, dyeing and finishing operations with the best results obtained on the dyed and finished fabrics can be listed as follows:

Procedure Number One:

- (1) Prepare greige goods on shell-carefully wound.
- (3) Boil-off and dry.
- (4) Singe.
- (5) Pad on colors.
- (6) Tig.
- (7) Pad on water repellent.
- (8) Dry and frame (natural finish).

Some plant chemists and dyers may not prefer to work along this line, but as the main purpose of this article is to suggest a procedure to give a satisfactory finished piece of rayon-cotton twill free of bruises, chafe and break marks, the first outlined procedure is preferred. However, in some plants the following may prove the more desirable:

Procedure Number Two:

- (1) Prepare greige goods on shell, carefully wound.
- (2) Singe.
- (3) Desize.
- (4) Boil-off and dry.
- (5) Pad on color.
- (6) Jig-dyeing.
- (7) Pad on water repellent.
- (8) Dry and frame (natural finish).

The operative must be careful in beaming the rolls of greige goods in that the goods are firmly wound without excessive tension to pull the selvedge too high or make a ridge. It has been found from plant runs that rolls holding five to six hundred yards usually give the best results in handling and on the final finished fabric.

#### Desizing

The satisfactory desizing or removal of sizing from the greige goods appears to be just a routine job to many plant

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officials, but on these heavier goods there are many precautions that must be observed.

Desizing mix (200 gallons):

50 to 100 pounds desizing agent (according to strength).

10 pounds wetting agent.

For Exize, 130° F. is preferred padding temperature; then allow treated goods to stand on shell at least four hours.

For Rapidase, 150° F. is the preferred padding temperperature; then allow treated goods to stand three to four and one-half hours, according to size of roll.

In padding Rhozyme, it has been found that 135-140° F. gives good results and then allow to stand for four to six hours in the roll before giving a boil-off on the jig.

As this is a heavy construction material, the dyer may find that greige goods from various weave mills will vary as to desizing methods due to sizing content; so these suggested formulae must be taken purely as a guide, and it is well to secure additional recommendations from the makers of the desizing agent preferred for plant use.

Due to the variations in greige goods from one lot to the next, as well as from one mill to another, it may be found best to allow the treated goods to set six or eight hours in particular lots so as to insure complete solubilization of the sizing before entering the goods into the boil-

Due to the heavy construction of this quality of goods, it has been found best to follow Procedure Number One

Preparing Textiles for North Africa

Lend-Lease and War Aid textile procurements in large volume have excited much interest in the trade and have elicited many inquiries as to what type fabrics should be used and how best to dye, print and finish them. The answer to these questions is aided materially by reference to a bulletin, newly released, by Calco Chemical Division, American Cyanamid Co., giving "Typical Shades and Patterns for the French North African Trade."

Prepared from information gathered in France, this bulletin gives a comprehensive picture of the fabric construction and the patterns used for many years in the closely controlled markets of Tunisia, Algiers and Morocco.

In order to faithfully reproduce the original fabrics, it was necessary to print the bulletin in 17 colors. To aid the interested textile manufacturer, typical formulae have been given and prints wherever possible have been made to full size of the original.

Enlarging on the construction of fabrics and their finishing, a table has been prepared showing type, count, width and finish.

Many manufacturers and finishers will find interest in the fact that patterns in print goods are similar in many cases to those used in America and that some shades popular in North Africa are also those of high choice in this country.

This information is contained in Calco Technical Bulletin No. 695, copies of which may be procured by addressing Calco Chemical Division, American Cyanamid Co., Bound Brook, N. J. by desizing and boiling off the goods before singeing. It is preferred in the handling of these goods during these preparations to always run the goods off and onto a shell instead of from folded goods in a box. If greige goods are singed and run into a box instead of onto a shell, these singed goods will most likely show up full of box marks (such as creases, bruises and breaks) when the goods are padded and vat dyed. On some shades this defect is more noticeable than on others. To insure the best job, always run from the singeing onto a roll, whether using Procedure Number One or Number Two.

The greige goods could be desized by running on a jig eight to 12 ends with necessary desizing agent, but this method is more expensive and does not give better desized goods if compared to the padding method when sufficient desizing and wetting out agents are used.

Though many dyers prefer a combination desizing by padding than running on jig for four ends before allowing the treated goods to stand for four to six hours, this method usually helps to give better penetration for desizing before entering the boil-off bath though it requires more time and desizing agents than just padding and allowing to stand for complete solubilization of starch and sizing agents.

#### Jig Boil-Off Operation

Bath Number One—75-gallon bath:
0.5 oz./gallon tri-sodium phosphate or
0.375 oz./gallon tetra sodium pyrophosphate.
0.125 oz./gallon wetting agent (alkali resistant).

- (1) Run desized goods into jig bath through running cold water, checking the roll to see that it is carecarefully lined up free from creases, then raise temperature of bath to boil and give three to six ends to insure complete removal of sizing.
- (2) Drop bath by cracking water inlet valve and drain valve so as to give a cold running wash for one end, then drain bath completely.
- (3) Give one end warm wash at 120-140° F, and run goods onto shell through warm water if there is no second boil bath to be given, otherwise run onto one roll ready for second boil-off operation.

#### Precaution in Running Boil-Off Bath

Some operatives may be careless in handling the boil-off and thus it is best to tell the operative not to "finger" the goods during jigging either on boil-off or subsequent dyeing operations.

The operative must keep these heavy goods free of creases as well as too great a tension. Otherwise, if the goods are pulled too greatly under heavy tension, the finished goods may have "shiners," thus giving it an off-shade appearance on portions of the finished fabric.

Due to this heavy construction, these goods are best given a second boil-off bath.

Bath Number Two-75-gallon bath:

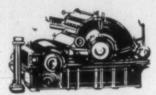
5 to 6° Beaume caustic soda solution.

0.6 oz./gallon wetting agent (alkali resistant).

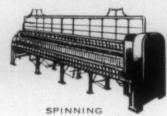
(This penetrant must be of very active type.)

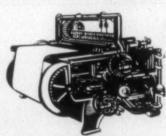
Enter goods cold through running water, line up free from creases on rolls, then raise to boil, give three ends,

(Continued on Page 38)

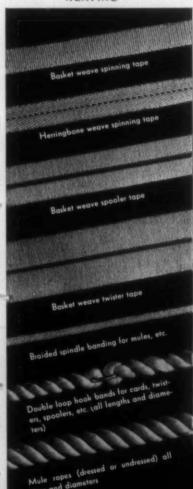


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## PRACTICAL TEXTILE DESIGNING

PART ELEVEN

By THOMAS NELSON

Dean of the Textile School, North Carolina State College, Raleigh

Continuing his series on the designing of textiles, Dean Nelson takes up curved and fancy twills. The next installment, Part Twelve, will deal with corkscrew and pointed twills.

CURVED twills are constructed with 45 degree twills as a basis. This is accomplished by arranging the threads in various degree twills, that is by arranging 45 degree twills with steep or reclining twills according to the curve that is required. Any twill weave can be used as a basis, but the same twill must be used through the complete design. These twills are often used to form stripes in fancy cotton cloths. If the threads for curved twill are made with mercerized yarns a good effect is obtained. The mercerized thread can be set alternately with an ordinary thread, the ordinary thread weaving plain, or the stripe can be made entirely by the curved twill.

The following designs will clearly illustrate the principle of constructing these twills:





Fig. 153 illustrates the foundation weave  $\frac{3}{2}$  twill.

Fig. 154 illustrates the curved twill design.

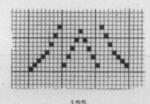


Fig. 155 illustrates the drawing in draft, which is a combination of 45 degree and 63 degree twills.

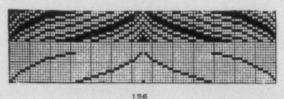


Fig. 156 illustrates a curved twill design with drawing in draft, using the  $\frac{3}{1}$   $\frac{1}{2}$   $\frac{1}{2}$  twill,

#### Fabrics Made From Curved Twills

Among the many fabrics in which these weaves are used are draperies and shirtwaistings. Fig. 157-A illustrates an

all-cotton drapery in which the ———— twill has been used in

various degrees on a plain weave ground. Fig. 157-B is a dapery fabric having a two ply rayon thread for figuring with a cotton back weaving plain. The weave used for the

curved twill is the 
$$\frac{5 \quad 1 \quad 3 \quad 1}{1 \quad 1 \quad 1 \quad 1}$$
 twill.



157-



157-

Fig. 157-C is a better grade of drapery having a two-ply rayon face warp with a heavy two-ply cotton filling. The construction of this fabric is approximately 86 ends of 200—2 ply rayon for face with 28 picks of 5—2 ply cotton filling.

Fig. 157-D illustrates another idea in making curved twills for dress goods. This fabric is arranged with two

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Last year saw nearly 30,000,-000 workers voluntarily buying War Bonds through some 175 .-000 Pay-Roll Savings Plans. And buying these War Bonds at an average rate of practically 10% of their gross pay!

This year we've got to top all these figures—and top them handsomely! For the swiftly accelerated purchase of War Bonds is one of the greatest services we can render to our country . . . and to our own sons . . . and our neighbors' sons. Through the mounting purchase of War Bonds we forge a more potent weapon of victory, and build stronger bulwarks for the preservation of the American way of life.

"But there's a Pay-Roll Savings

Plan already running in my plant."

Sure, there is-but how long is it since you've done anything about it? These plans won't run without winding, any more than your watch! Check up on it today. If it doesn't show substantially more than 10% of your plant's pay-roll going into War Bonds, it needs winding!

And you're the man to wind it! Organize a vigorous drive. In just 6 days, a large airplane manufacturer increased his plant's showing from 35% of employees and 21/2%of pay-roll, to 98% of employees and 12% of pay-roll. A large West Coast shipyard keeps participation jacked up to 14% of pay-roll! You can do as well, or better.

By so doing, you help your na-

tion, you help your workers, and you also help yourself. In plant after plant, the successful working out of a Pay-Roll. Savings Plan has given labor and management a common interest and a common goal. Company spirit soars. Minor misunderstandings and disputes head downward, and production swings up.

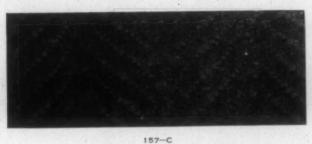
War Bonds will help us win the war, and help close the inflationary gap. And they won't stop working when victory comes! On the contrary—they will furnish a reservoir of purchasing power to help American business re-establish itself in the markets of peace. Remember, the bond charts of today are the sales curves of tomorrow!

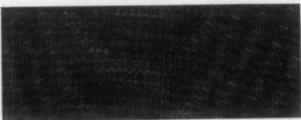
## You've done your bit Now do your best!

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face threads to one back thread, the back threads weaving plain. The pattern is complete on 288 threads for face and

144 threads for back. The curved twill weave is the \_\_\_\_\_\_\_ 2 twill.







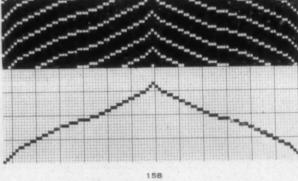


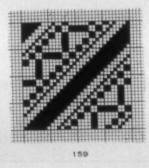
Fig. 158 illustrates the design and drawing-in draft for the fabric shown in Fig. 157-C.

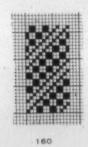
#### Fancy Twills

Fancy twills are a combination of heavy twill lines and other small weaves such as basket weaves, rib weaves, broken twills, etc. The object aimed at is to produce diagonal lines with a fancy effect running between the diagonals. These weaves are used extensively in white dress goods and shirt waistings combined with mercerized satin stripes, tape stripes, etc. Figures 159 to 164 illustrate different examples of these weaves.

To produce these effects proceed as follows: First, decide on the number of threads and picks required for the design. Second, insert a twill weave—generally a heavy twill line—in the number of threads and picks decided upon. Third, insert a fancy weave between the twill weave. This fancy weave must repeat itself on the number of threads and picks used for the twill. If the twill weave and figure does not repeat on the same number of picks, the design must be continued until a full repeat of the two

is obtained. Fourth, to determine when the small fancy effect and the twill weave is complete, count the number





of threads in the fancy effect diagonally and if the number is a factor of the twill weave, one repeat of the twill weave will be a full repeat of the pattern.

Example: Suppose a twill weave to be complete on 32x 32 threads and picks. The fancy effect complete on eight threads counted diagonally. Four repeats of the fancy effect will be required to one repeat of the twill weave to complete the pattern. This is illustrated at Fig. 159.

Take another example—suppose a twill weave is to be made, complete on 13x13 threads and picks. The fancy effect is complete on two threads. Two repeats of the twill and 13 repeats of the fancy effect will be required to make a complete repeat of the pattern. This is illustrated at Fig. 160.





Figs. 161 and 162 illustrate fancy twill designs.

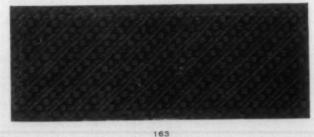




Fig. 163 illustrates a dress goods fabric constructed from a twill stripe and a basket weave. Fig. 164 is the design used for this fabric.

(To be continued)



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## MILL NEWS

New Orleans, La.—Lane Cotton Mills was recently presented the Treasury Department's Minute Man Flag for 90 per cent worker participation in payroll savings for war bonds.

ARAGON, GA.—The "Spirit of Aragon," an Air Corps bomber, is to be named for Aragon Mills in honor of the plant having won the Army-Navy "E" and the Treasury's Minute Man Flag.

PELHAM, GA.—Clark Thread Co. of Georgia has purchased the property of the old Consolidated Textile Corp., and will soon begin operation here of its third mill in the State. After machinery is installed the plant is expected to run on a 24-hour basis and employ from 500 to 700 spinners.

NEWTON, N. C.—The management of New City Mills Co. has distributed more than \$4,000 in cash and war bonds employees as first quarter bonus payments, with additional bonuses expected during the year. The company gave an outing for 400 persons, at which time the money and bonds were distributed.

DANVILLE, VA.—More than 150 employees of Riverside & Dan River Cotton Mills were stricken late last month by food poisoning, with many of them having to enter Danville hospitals for treatment.

All food served at the plants was impounded. No one outside the mills was reported to have been stricken. In every case the patients were painfully ill for a few hours, then suddenly improved.

ARMY E NAV

For their part in producing war materials, the employees and executives of Peerless Woolen Mills, Rossville, Ga., were awarded the Army-Navy "E" recently. Shown above is the group of workers, service officials and company executives who took part in the ceremony.

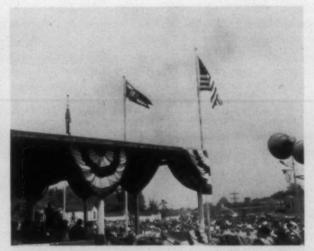
ASHEVILLE, N. C.—Sayles Biltmore Bleacheries, Inc., gave its employees a banquet May 29 as a reward for having worked six million man hours over a span of five years without a lost-time accident.

GOLDVILLE, S. C.—Joanna Textile Mills Co. has opened a day nursery to care for young children of the mill community. Mill Manager W. A. Moorhead has stated that the nursery will be open five days a week.

GREENSBORO, N. C.—Workers in the 45 plants of Burlington Mills Corp. will receive bonuses according to the length of their service with the firm. The practice of paying bonuses instead of granting vacations was begun last year in an effort to maintain full production of necessary fabrics during the summer despite a labor shortage.

POST CITY, TEX.—Postex Cotton Mills have been closed because of what the management terms as impractical price ceilings. The firm has been in operation since 1912, with capital stock of \$457,000. It is equipped with 11,520 spindles and 296 looms, on which wide sheetings, sheets and pillow cases were made. Herbert Jones was manager and vice-president.

WAYNESBORO, VA.—Esmond-Virginia, Inc., and American Blanket Co. of Lynchburg, Va., both controlled by Clarence Whitman & Sons of New York City, have been merged into the firm of American Blanket Co. The firm, which has 90 looms on cotton blankets, has an authorized capital of 1,000 shares of common stock and \$400,000 in preferred stock.



The view above shows the speakers' stand, crowd and flags while William F. Loman, a long-time employee, spoke during ceremonies at which Proximity Mfg. Co. and Revolution Cotton Mills, Greensboro, N. C., were awarded Army-Navy "E" pennants.





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## ¿ PERSONAL NEWS S

James L. Beaver has resigned as foreman of weaving at Brookford (N. C.) Mills, and is now at his home in Landis, N. C.

Henry H. Rankin, superintendent of South Fork Mfg. Co., has been elected president of the Rotary Club at Belmont, N. C.

H. B. Bradford has been elected vice-president and has been appointed general manager of American Moistening Co., Providence, R. I.

R. F. Hamilton, manager of Candlewick Yarn Mills, Dalton, Ga., has been elected to the board of directors of Hardwick Bank & Trust Co.

W. P. Johnson has been promoted from overseer of weaving to assistant superintendent at Inman (S. C.) Mills. H. C. Estes is superintendent.

B. Everett Jordan of Sellers Mfg. Co., Saxapahaw, N. C., was elected a trustee of Duke University at a recent meeting of the college's board at Durham, N. C.

Robert R. Peeples, head of the irregular goods department, cotton and rayon division of Pacific Mills, has retired and has been succeeded by W. T. Roff.

William H. Jones, formerly with the waste department of Callaway Mills, LaGrange, Ga., is now associated with Railway Supply & Mfg. Co., Cincinnati, Ohio.

Hugh W. (Toots) Causey of Charlotte, N. C., salesman for Solvay Sales Corp., has entered the Navy. He is now receiving training prior to being granted a commission.

Harry Carter, vice-president of Carter Fabrics Corp., Greensboro, N. C., has returned from Fort Leavenworth, Kan., where he took the fourth Army orientation course.

J. Huff, superintendent of Camperdown Cotton Mills, will be a candidate for the Greenville (S. C.) Board of Aldermen in the city primary election scheduled for June 8.

A. H. Hamilton has resigned as superintendent at Pee Dee Mfg. Co. Mill No. 1 at Rockingham, N. C., to accept the position of superintendent at Cutter Mfg. Co., Rock Hill, S. C.

Luther H. Hodges, vice-president and general manager in charge of the manufacturing division of Marshall Field & Co., has been elected treasurer and a trustee of Town Hall, New York City.

Carl A. Rudisill, textile executive of Cherryville, N. C., was honored recently when his portrait was unveiled at the dedication of the Rudisill Library Building on the campus of Lenoir-Rhyne College, Hickory, N. C. Erection of the building was made possible by funds which Mr. Rudisill and his family donated. Mr. Rudisill is a graduate and trustee of the college.

W. H. McGaha, formerly overseer of weaving at Riverside and Dan River Mills, Danville, Va., is now general overseer of weaving, slashing and drawing-in at Entwistle Mills No. 1, Rockingham, N. C.

R. W. Arrington, president of Union Bleachery, and S. M. Beattie, president of Woodside Cotton Mills, have been elected first and second vice-presidents, respectively, of the Greenville (S. C.) Chamber of Commerce.

Langdon S. Ligon of Greenville, S. C., a student at Clemson College, has been awarded the medal presented each year by the National Association of Cotton Manufacturers to the textile engineering senior with the highest average.

Luke J. Castile, popular representative of Keever Starch Co., is a patient at Presbyterian Hospital, Charlotte, N. C., where he is recovering from the effects of a recent operation. His condition was reported as entirely satisfactory at the time of going to press.

J. S. Smith, president of Carolina Brush Co., Inc., Charlotte, N. C., has been appointed to membership on the War Production Board's Maintenance Brush Industry Advisory Committee. Mr. Smith, whose firm designs and makes textile brushes, says he expects priority ratings of not less than AA-5 to be set up for the purchase of brushes.

Captain E. A. Quintard, formerly of Swift Mfg. Co., Columbus, Ga., has been recommended for the Distinguished Flying Cross for action in the south Pacific. Captain Quintard, a graduate of the textile school at North Carolina State College, has been in the service since March, 1941, and has been overseas since last September.

Frank M. Griffin, vice-president and technical director of American Viscose Corp., has completed 25 years of service with the company and has been awarded the firm's 25-year service pin. He joined American Viscose in 1918, and since then has done much in developing the processes used in manufacturing rayon, which in turn have resulted in improving the quality of rayon.

J. E. Sirrine has been honored by the Greenville (S. C.) Rotary Club for distinguished service to his community, state and nation. Greenville Rotarians devoted their 27th anniversary program May 25 to recognition of the record of service in various fields of Mr. Sirrine, the club's first president. He was presented with a scroll of honor on which was inscribed: "In recognition of, and in gratitude for, his service to this club and to the community, state and nation, the Greenville Rotary Club presents this scroll of honor to Joseph Emory Sirrine, first president of this club, first citizen of Greenville, industrial statesman, engineering genius and friend and benefactor of mankind. By order of the board of directors: Charles Haddon Nabers, president; J. Larry Jameson, vice-president; Marion M. Hewell, treasurer; Walter W. White, secretary."

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Contributions on subjects pertaining to cotton, its manufacture and distribution, are requested. Contributed articles do not necessarily reflect the opinion of the publishers. Items pertaining to new mills, extensions, etc., are solicited.

#### Their Heaven Has Vanished

No other publication as deeply resented the efforts of the Communist Third International of Russia to establish itself in the United States and to overthrow our Government, and no other publication has over the years devoted as much editorial space to exposure of the efforts of the Comintern and condemnation of those of our citizens who affiliated themselves with the Russian effort.

We now accept at full face value the recent statement of Joseph Stalin that the Communist Third International will be dissolved and that no longer will Russia have a part in efforts to establish the communist doctrines outside of Russia.

We believe that Stalin has made a momentous decision and that the rest of the world is permanently free from that which was a menace.

We have always contended and still contend that Stalin and Russia had a right to determine the form of government under which they were to live and that if they preferred communism it was a matter for the Russians, and the Russians only, to decide.

It was when Russia established the Communist Third International in other countries and attempted to supplant their governments with communism that we became alarmed and began to fight those in America who were willing to become agents, and in many cases, paid agents, of an organization which sought to overthrow our government. Countless times we have been accused of making false statements or of having hallucinations.

Countless times persons whom we were certain were receiving money from agents of the Comintern and knew why they were receiving it, have denied that Russia was making any effort to establish communism in the United States.

Now Stalin, by stating that the Communist International will cease to function in other countries, admits that it did function and that we told the truth when we said that it was trying to establish communism in the United States.

Once when a group of the American agents of the communists were visiting Russia, with expenses paid by the Communist Third International, Stalin, in a statement published in the Comintern Press of Leningrad, said to them:

I think, comrades, that the Communist Party of America is one of the few communist parties in the world upon which history has placed tasks of decisive importance from the point of view of the international revolution.

I think that the moment is not far off when a revolutionary crisis will be unleashed in America, and when that revolutionary crisis comes in the United States, it will mark the end of world capitalism. The Communist Party of the United States must be armed to be able to meet this historical moment and to head the forthcoming class war.

Even after that statement had been made, the communist group in the United States continued to deny that there was any organized effort to establish communism in America.

Those who have a file of information upon the pacifistic organizations which functioned prior to the present war, and in many cases up to the day that Germany attacked Russia, will find that many of the most active members of those organizations were definitely allied with Russian communism.

Russia was building and arming the largest army in the world, which she later found to have been a mistake, because war developments soon outmoded the planes and weapons she had built, but while Russia was arming, certain of her friends in America were working unceasingly to keep the United States from arming.

While striving to overthrow our government and to establish communism in its place, they were also working to keep America unarmed while Russia acquired military strength.

The Communist Third International, while engaged in its work in the United States, did supply funds to many who were willing to work for their cause.

We are confident, although we never had definite proof, that certain of the radical group of professors at the University of North Carolina were upon the Russian payroll. We did find, through a secret investigation, that the wife of a professor at Duke University, was receiving money from Russia regularly.

Not all the American communists were paid. Some

worked because they were in sympathy with communist doctrines while others reasoned that if they advocated communism they would be given lucrative and influential positions when it came to power in this country.

For ten days prior to Stalin's recent announcement that the Comintern would discontinue activities in other countries, we had upon our desk an article which greatly puzzled us.

It was a three-column article which appeared in the May 9th issue of the *New York Times* and was signed by John Dewey and Suzanne LaFollette and consisted of an attack upon the book and film, "Mission to Moscow."

Prof. John Dewey of Columbia University has long been among the leaders of the radicals in the United States. He went to China at a time, a few years ago, when an effort was being made to establish communism in that country. One Chinese writer said that he did more harm to China than 50 years of opium.

We have for many years regarded John Dewey as public enemy No. 1 in the United States. Our opinion placed him ahead of Al Capone.

Suzanne LaFollette is a niece of Senator LaFollette and has been identified with radical movements.

We knew that John Dewey and Suzanne LaFollette had some interest in communism and that there must be some reason when they attacked a book because it spoke well of Joseph Stalin.

They must have known that Stalin was going to throw American communism overboard when they wrote that long tirade against him.

The communists in the United States have long worshipped Stalin and the Comintern and they have suffered a cruel blow.

They have seen their heaven vanish and are now like lost souls traveling in an unchartered wilderness.

We once saw bewildered bees flying around the spot from which their hive had been removed while they were absent, but they were no more bewildered than the American communists are today.

They have long dreamed of the day which Lenin, Trotsky and Stalin had told them would come, the day when they would lead a successful revolution against the government of the United States and would find themselves, as faithful followers of communism, elevated to positions of power and they could take unto themselves the wealth of those whom they had cast into prison.

Now Stalin, the king bee, has walked out on them and the heaven they have dreamed about has vanished

In May, 1935, President Frank Graham and Prof. Howard Odum of the University of North Carolina sponsored a summer school at Moscow University for the purpose of having American youth learn about communism, but, even if there were no war we doubt that they could be induced to sponsor another such school this summer.

The truth is, that Stalin had learned the weakness of communism and had shifted to the right and no longer cared to be affiliated with a group of Americans who were constantly going still further to the left and had become more communistic than Russian communism even under Lenin.

American communists have seen their heaven vanish and are now jumping around like the proverbial "chicken with his head cut off."

When Earl Browder was asked whether or not this group would continue to sing "The Red International" at their meetings he said "that I cannot say."

He might have given the same answer when asked whether or not they would continue to spit upon the American flag and to trample upon it at their meetings.

Draft obstruction and attacks upon our war preparation ceased on the day Germany attacked Russia and automatically placed us upon the side of Russia, but now that the Communist Third International has lined up against the activities of communists in America, it would not surprise us to see obstruction tactics and sabotage begin.

Although their heaven has vanished the communists in the United States will soon get together and will again become active.

Stalin has assured the world that he will no longer be a party to the efforts of nationals in other countries to overthrow their governments and establish communism and we are convinced that such will become the established policy of Russia.

#### A Good Idea

Somebody had a good idea when a movement was started to obtain relief for industrial managers who are besieged with questionnaires.

Marion Heiss, Revolution Cotton Mills, Greensboro, N. C., and Brown Mahon, Dunean Mills, Greenville, S. C., and four other textile men are serving on a committee which is to hold its first meeting in New York June 8th. Textile manufacturers are requested to write one of those above named outlining their suggestions on the following topics:

- 1. Which questionnaires can or should be eliminated?
- 2. Which questionnaires can be simplified and how.
- 3. How duplication of questionnaires can be avoided.

If those who have had to worry with questionnaires are not willing to now take time to answer these questions let them hereafter hold their peace about questionnaires.



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## JOSEPH A. VOGEL

WILMINGTON, DELAWARE

## MASTER MECHANISS SECTION

## Build Up a Coal Stockpile Now!

PRACTICALLY every industrial user of fuel, from the owner of the small mill on the back street to the executive of the big electric power plant down by the river is pondering a question common to them all:

"What should I do to insure against the eventuality of having to close my plant or reduce operations for lack of fuel if there should be a coal shortage this year?"

A simple answer to this question perplexing industrial users of fuel comes from Solid Fuels Administrator for War Harold L. Ickes, who also is the Petroleum Administrator for War.

#### Stockpiles Necessary

"Because of the limited manpower and facilities for producing and supplying the great amount of coal that we need this year, consumers and prospective consumers must order their coal on a basis that will enable the mines, carriers and distributing agencies to make continuous, full use of their facilities. They must store the coal as it can be supplied to them, and in so doing not only give the mines an opportunity to meet production requirements, but build up stockpiles of coal to carry them through periods when it will be difficult to obtain coal readily. These stockpiles are the nation's best insurance against a coal emergency."

#### Suggestions

As a means of assuring their own and their nation's fuel security, Administrator Ickes has suggested that consumers take the following voluntary action:

- 1. Contract for, or order coal as soon as possible.
- Allow producers and dealers the fullest possible latitude as to size and kind of coal, shipping and delivery schedules, and type of transportation equipment used.
- Seize every opportunity to build stockpiles to the following levels:
  - a. Essential war industries—from 90 to 120 days' supply.
  - b. Other industrial users—from 60 to 90 days' supply.
- 4. When stockpile is built to adequate size, keep it that way. Use stocks only in an emergency.

In view of last year's stocking record, it is reasonable to assume that by far the majority of large consumers will continue to build and maintain reserve supplies of coal at the highest possible levels. Others will probably be reluctant to create stockpiles of any consequence until they know the answers to a lot of questions.

How much more will it cost to stock coal? Will coal in storage lose any of its heating value? Will it slack and give a smaller size coal? Will its burning characteristics change? Will it catch fire from spontaneous combustion?

The answers to all these questions are available, but lose a great deal of their importance, when the consumer realizes it is quite likely to be a case of stocking when coal is available or going without in the possible event of a full scale emergency.

Cost of storage and recovery cannot be generalized. It may range from a few cents to as high as a dollar a ton, according to the facilities for storage available at a plant. High or low, the cost probably will be considerably less than the cost of shutting down a plant for any considerable period because of the lack of fuel.

Investigations made by the Bureau of Mines show that most coals lose little or no heating value because of storage. The bureau has found that slacking in storage depends on the rank of the coal. Under good conditions, it ordinarily extends only a short distance into the coal pile from any exposed surfaces. Very little difficulty, if any, should be experience in storing most coals, if adequate precautions are taken.

Some changes in burning characteristics may occur in some coals in storage, the bureau reports. Its coking tendencies may decrease. Whether this impairs efficiency of the fuel-burning equipment depends upon its type. Sometimes low-volatile slack, after long storage, is slow to ignite at low temperatures.

Oxidation of the coal substance itself is the main cause of spontaneous combustion. Coals vary a great deal in their natural tendency to take up oxygen. It would seem wise, then, to store coal in a fashion calculated to permit as little oxidation as possible and to store coal of higher rank.

To assure absolutely that no undesirable heating will develop in stored bituminous or sub-bituminous coal, it is necessary to use careful methods of storage. These methods either prevent entirely the access of air to the coal or provide for access of enough air throughout the pile to carry away heat as fast as it develops. Bureau of Mines experts are prepared to offer more detailed advice on methods which will make one or the other provision.

Storage of coal out-of-doors will be the subject of an article in Textile Bulletin of July 1.

#### OUR MEN NEED BOOKS



Help a man in uniform enjoy his leisure hours. Give your good books to the 1943 VICTORY BOOK CAMPAIGN. Leave them at the nearest collection center or public

#### WANTED

Man with several years' experience in the complete manufacture of cotton sewing thread. Applicant should also have knowledge and experience as manager of employment and personnel, and be qualified to act as a purchasing agent for a cotton thread plant.

Address "Box S-T," c/o Textile Bulletin.

#### HELP WANTED

Fixer for cotton roving frames in small yarn mill near Chicago. Would prefer man who can also grind cards. Can make up to \$35.00 per week. If married, have employment for wife if experienced in yarn mill work.

Address "Yarn Mill," c/o Textile Bulletin.

COMBED YARN MILLS - Overhauling. repairing, checking settings of any machineries from Bale Breaker to Spinning Frames, including Card Clothing. by competent man. Write "Box 524," c/o Textile Bulletin.

WANTED-By man with many years' experience as Roller Coverer, job as foreman of large mill shop. Draft ex-empt. Best of references and in best of health. Address "Roller Coverer," c/o Textile Bulletin

SUPERINTENDENT, Carder and Spinner. Employed; above draft age; experienced on all class cotton, yarns, plain and fancy weave. Services available. References. Address "Box H. D.," c/o Textile Bulletin.

PRACTICAL CARDER or Shift Foreman wants position. Long practical experience as Overseer Carding Department. Address "Practical," c/o Textile Bulle-

POSITION WANTED as Carder, Spinner or Superintendent. Long experience on carded and combed yarns and rayon novelties, etc. Also some experience in weaving. Not subject to draft. Best of references, Address "B-B," c/o Textile Bulletin.

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MAN with several years' experience as Supply Clerk wants to correspond with large mill needing man for this position. In best of health and draft exempt. Address "Supply Clerk," c/o Textile Bul-

WANTED-Position as Carder or Spinner; am sober and can furnish reference, and can run your job. Can change on two or three-day notice. Address "Carder and Spinner No. 1," c/o Textile Bulletin.

POSITION WANTED as Chief Electrician or Master Mechanic on construc tion and maintenance work in textile plant. Now employed but would like to make change, 12 years' experience on this work; can give A-1 references. Write "Electrician," c/o Textile Bulle-

SUPERINTENDENT available in near future. Wants position as Superintendent in yarn mill. Practical experience embraces all phases of yarn manufacturing-carded and combed, single and ply yarns. Blends; cotton, acetate, rayon, wool and gassed yarns. Practical education. Good manager of help. Address "P-H," c/o Textile Bulletin.

MILL SUPERINTENDENT -- Aggressive executive type, wants position in cotton or rayon mill, plain or fancy. Twelve years' experience as superintendent. Draft exempt. Best of references. Will come for interview. Address "Box 118," c/o Textile Bulletin. Draft exempt. Best of refer-

WANTED-Position as Purchasing Agent for progressive textile manufacturer. Have had 14 years' successful experience buying for a leading textile organization. Class 4-F; age 36; married. Desire change for personal reasons, Address "674," c/o Textile Bulletin.

WANTED-Position as Superintendent of yarn mill, or Overseer of large spinning room. Age 43. Experienced on all classes of goods. Good references. Service available. Address "T. P. H.," c/o Textile Bulletin

POSITION WANTED by A No. 1 Carder and Spinner; 15 years' experience on all kinds combination yarns; now employ ed as Carder and Spinner; been with present employer 6 years, giving satisfaction. For good reason desire to make change. Can furnish A-1 references; so-ber. Address "Box 308-K," c/o Textile

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Address "Box La-9,"
c/o Textile Bulletin.

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Unusual opportunity for chemist with textile processing experience to persuade mills to use special chemicals. Send details.

Write "J. Q.," Textile Bulletin.

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  1—Termaco Roving Bobbin Stripper, 11½" bobbins.
  1—Scott Comb. Yarn & Cloth Tester, J., 2100-400 Lb, Cap.
  1—Tolhurst 40" Extractor, Belt Drive.

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J. H. WINDLE & CO. 231 So. Main St. Providence, R. I. Tel. Gaspee 6464

#### Textile Students Are Honored At N. C. State College

Robert I. Dalton, Jr., of Charlotte, N. C., has been selected as the winner of the Phi Psi award given annually by the Grand Council of Phi Psi, national textile fraternity,







Robert I. Dalton

Joseph E. Sampson

Stanley Garfinke

to the outstanding textile senior at North Carolina State College, Raleigh.

He is a son of R. I. Dalton, Southern representative of Whitin Machine Works.

During the past year Mr. Dalton was editor-in-chief of his college annual, a member of the publications board, and a lieutenant in the Reserve Officers Training Corps. He is listed in Who's Who Among Students in American Universities and Colleges, and has taken an active part in a number of college organizations. He is a member of Phi Psi Textile Fraternity and Tompkins Textile Society.

Joseph E. Sampson of Guilford College, N. C., has been awarded the medal given annually by the National Association of Cotton Manufacturers to the most proficient textile student in the graduating class.

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During the past year Mr. Sampson served as a student assistant in the weaving department, was secretary-treasurer of Sigma Tau Sigma, textile honor society, and on the staff of *Textile Forum*. He is a member of Phi Psi textile fraternity. Mr. Sampson, a member of the Enlisted Reserve Corps, was called to active service during the spring quarter and is now at Camp Wheeler, Ga.

Stanley Garfinkel of Flushing, L. I., N. Y., has been awarded the cup given annually by Sigma Tau Sigma, textile honor society, to the textile senior at North Carolina State College who has made the highest scholastic average for four years.

Mr. Garfinkel holds a commission as ensign in the United States Naval Reserve. He is a member of Sigma Tau Sigma, textile honor society, and served on the United War Fund Committee of the college.

#### Carolina Specialty Is Red-Ray Agent

Carolina Specialty Co. of Charlotte, N. C., has been appointed Southern agent for the Red-Ray Mfg. Co. of New York City, manufacturers of infra-red ray combustion equipment.

Installations of Red-Ray equipment have recently been made in several of the country's leading finishing plants and are showing excellent results, according to W. S. Anderson, head of the Charlotte company.

## Which comes first \_\_ Your second helping? or our second front?

You want to see this war won – and won quickly. You want to see it carried to the enemy with a vengeance. Okay—so do all of us. But just remember...

A second front takes food...food to feed our allies in addition to our own men.

Which do you want — more meat for you, or enough meat for them? An extra cup of coffee on your breakfast table, or a full tin cup of coffee for a fighting soldier?

Just remember that the meat you don't get—and the coffee and sugar that you don't get—are up at the front lines—fighting for you.

Would you have it otherwise?

Cheerfully co-operating with rationing is one way we can help to win this war. But there are scores of others. Many of them are described in a new free booklet called "You and the War," available from this magazine. Send for your copy today! Learn about the many opportunities for doing an important service to your country.

Read about the Citizens Defense Corps, organized as part of Local Defense Councils. Choose the job you're best at, and start doing it! You're needed—now!

**EVERY CIVILIAN A FIGHTER** 

34

#### Textile Chemists Will Consider New Problems At Winston-Salem

The Piedmont Section of the American Association of Textile Chemists and Colorists will hold its summer meeting at the Robert E. Lee Hotel in Winston-Salem, N. C., Saturday, June 5.

Technical papers will be presented and discussed from 3 until 5 p. m. Prominent men in the textile industry will lead the technical program; and the banquet at 7:30 p. m. will be followed by an address from William M. McLaurine, secretary and treasurer of the American Cotton Manufacturers Association.

Ernest Caswell, superintendent of dyeing at Cloverdale Dye Works, High Point, N. C., will preside during the discussion of "Hosiery Dyeing, Ingrain and Piece."

John Neely, superintendent of Burlington Mills Yarn Dyeing Division, Burlington, N. C., will lead the discussion on "The Dyeing and Finishing of Government Fabrics Composed of Nylon, Rayon and Acetate." A special feature of this phase of the technical program will be covered by a paper on "Dyeing and Finishing Acetate Rayon and Nylon," by E. R. Hopkins, superintendent of dyeing and finishing at Stonecutter Mills, Spindale, N. C.

Sidney M. Cone of Proximity Mfg. Co., Greensboro, N. C., will preside over a discussion of "The Dyeing and Finishing of Cotton Piece Goods for the Government." Mc-Gee Calhoun, dyer of Erwin Cotton Mills, Cooleemee, N. C., has prepared a paper covering his experiences in this highly specialized work. Mr. Calhoun's paper will provide the nucleus for a broad discussion of this most important phase of the textile industry as it concerns the production of dyed cotton fabrics so essential to the comfort, protection and appearance of our fighting men. The paper will cover the important questions of preparation of the piece goods before dyeing. There will also be a discussion of the various mechanical and chemical problems involved in the production of fabrics having the high degree of tensile strength, color uniformity and fastness required by the Quartermaster Corps.

#### Crompton & Knowles Gets Star

Crompton & Knowles Loom Works, Worcester, Mass., which received the Army-Navy "E" for outstanding war production some time ago, has been awarded a star for its flag following six months of "continued excellent production," ended April 30.

The notification to John F. Tinsley, president and general manager, came from Admiral C. C. Bloch, U. S. N., retired, chief of the Navy Board of Production Awards, who wrote:

"The men and women of the Crompton & Knowles Loom Works have achieved a signal honor by continuing their splendid production in such volume as to justify this renewal of their award. In the first instance, it was difficult to win the Army-Navy "E" and by meriting a renewal, the management and employees have indicated their solemn determination and ability to support our fighting forces by supplying the equipment which is necessary for ultimate victory."

Admiral Bloch requested that there be no ceremony for presentation of the star.





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Its gentle, natural action works fast, to save time in both desizing and rinsing operations. It is highly efficient—leaves the cloth soft, clean and better prepared for bleaching and dyeing. It is entirely safe, easy to prepare, and economical in cost and use.

Try EXSIZE on a sample run, and compare. It may be the answer to reduced desizing costs. A trained Pabst field man will be glad to work with you in making the necessary tests, in our laboratories or your own mill—no obligation. Write for a detailed free booklet.

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We will welcome the opportunity to discuss your problems of merchandising and distribution

## **Cotton Goods Market**

NEW YORK .- "Goods, goods, goods; who has got the goods?", has been the main thought in the minds of those on Worth Street of late. Probably the easiest answer to this is that there are not enough goods worth mentioning.

More strict consideration of the end-use of textiles is being given by the WPB in applications for raw materials, is the opinion expressed frequently these days in various sections of the textile market. In this manner, it is hoped to limit the amount of consumption, cut off the flow of materials to channels considered of secondary importance, and at the same time increase and stabilize the movement of raw materials and semi-finished goods for war products and essential uses.

Continued emphasis on the scarcity of rayon linings in that section of the industry has more or less overshadowed the similar condition, if not more acute scarcity of cotton linings, it is pointed out in some sections of Worth Street market. Pocketings, lining materials and trimmings of cotton fabrics have all but disappeared, insofar as the regularly accepted types of fabrics used for these purposes are concerned. Buyers of these materials have as a result turned their efforts to obtaining substitutes of any kind, but here, too, are meeting up with great difficulty, because of the

Producers of clothing and large chains seeking materials in preparation for fall are having difficulty in getting goods, it is said in centers catering to the clothing trade. Many buyers are taking any kind of materials they can lay their hands on, being especially anxious to pick up sheetings, seconds, shorts or irregulars, so desperate is their predicament.

Some weavers of rayon linings stress that it is the 150 denier yarn that they need for this product, and that it is in the 150 denier that the producers have had to "dig" for much of the conversion to high tenacity . . . Finer yarn sizes, as the 75 denier and the 50 denier, are not suitable for rayon linings, weavers reiterate.

The extent to which available yardage of rayon linings for the clothing trade has been but is believed reflected in the position of one of the suppliers whose allotments have had to be on the basis of approximately 18 to 20 per cent of what he bought in 1941.

Pressure by buyers for all types of cloth has been strong recently, especially those seeking goods on high priority ratings. Some buyers were successful in picking up small quantities of cloth from a number of different sources and as a result have been able to assemble fair amounts against priority rated orders. The outstanding demand for cloth, however, continues very great from all quarters.

J. P. STEVENS & CO., Inc. fabrics for diversified uses 1410 BROADWAY 44 LEONARD STREET EMPIRE STATE BUILDING

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## **Cotton Yarns Market**

PHILADELPHIA.—One of the main topics of conversation on the local market is the Office of Price Administration. Apparently yarn men would not be very disappointed if OPA fell apart at the seams. Traders concede that the agency has performed very necessary functions, but point out that these same operations could have been carried out in a much more practical manner, such as cutting down the delay in adjusting price ceilings to fit in with rising costs of sale yarn production.

Some kind of sale yarn price control is needed if OPA goes out of existence, but market opinion is that the new form of price control should be based on practical yarn

manufacturing considerations.

Government war-work contracts seem to be quite in disrepute with sale cotton yarn spinners, it is stated. On behalf of the spinners, who beforehand have supplied a very large part of all the sale cotton combed and carded yarn for war orders, which the integrated mills could not furnish, it is said that the conditions under which the OPA special military combed yarn price ceiling is effective are not satisfactory to them. And it still remains for OPA to furnish an equitable price arrangement for the carded sale yarns wanted for Government orders.

It is pointed out that, until now, sale yarn producers have furnished war-work supplies, even at a financial loss, but

this cannot go on indefinitely.

At least a temporary easing of cotton sale yarn supplies for civilian uses is seen as likely to come out of preference shown by sale yarn spinners, carded and combed, for civilian business, as contrasted with Government orders. The latter are subject to renegotiation, and other rules and regulations that, in some cases, sale yarn sources regard as illadvised and unduly hard on them.

In the meantime, sale yarn production continues to decline, and this process has become lately more serious, as a number of spinning mills are said to have dropped the production of the counts on which they would lose most,

under present price ceiling limitations.

Conservative local comment is to the general effect that the basic supply situation in cotton yarns and most staple cotton goods items will remain unchanged. A number of observers believe that supply difficulties for civilians may even increase during the latter part of this year. That is, while there may be a temporary easing of civilian supplies of cotton sale yarn in some counts, there can be expected no general, over-all rise in production.

## J. W. Valentine & Co., Inc.

Selling Agents

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New York City

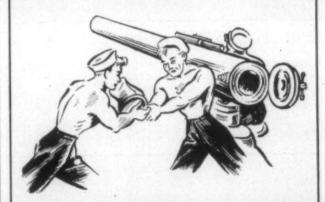
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TEXTILES' VITAL ROLE IN WINNING THE WAR

# American Ingenuity Has Done It AGAIN!



Our mills have devised a new, more important use for the millions of pairs of silk stockings which they produced in peacetime. For after proper reprocessing, the former silk stockings emerge as powder bags—speaking the only language the Axis understands. And America's mills are producing enough of them to settle any argument... permanently!

In this vital work of the textile industry, Burkart-Schier is playing an active part. For Burkart-Schier chemists and textile chemicals are working right along with the country's mills, helping to process all sorts of military fabrics, giving fabrics needed characteristics, making fabrics fit to fight!



#### BURKART-SCHIER CHEMICAL CO.

Manufacturing Chemists for the Textile Industry

CHATTANOOGA, TENNESSEE

PENETRANTS . DETERGENTS . SOFTENERS . REPELLENTS . FINISHES

#### Military Fabrics Possessing Potential Value for Civilian Uses

(Continued from Page 18)

drop bath on running wash. Give one end at 100-110° F. Drop bath, bring up in fresh bath.

First end—Add one pound acetic acid cold. Second end—Add one pound acetic acid cold.

From this neutralizing bath, run goods onto shell ready for drying on an enclosed loop or net dryer at 260-290° F., then on to tenter frame, 60-foot frame satisfactory for framing. Run onto singer, then shell ready for dyeing.

#### **Dyeing Operations**

These prepared goods are best dyed by padding and jigging with vat colors for the navy, khaki and various dark olive drab and brown shades. For wines and reds the logical colors to use would be napthols, though to date the shades run have not called for wines and reds. Civilian uses would probably require wines and reds and the writer is giving suggested formulae for this procedure.

A list of desirable vat colors for dyeing this prepared rayon-cotton twill is as follows:

						C	olo	r Index No
Vat	Olive AR .							1150
Vat	Olive R .							1150
Vat	Olive Green	В			7			
Vat	Brown AR							1151
Vat	Brown AG							1152

#### J. N. PEASE & COMPANY

ENGINEERS - ARCHITECTS

JOHNSTON BUILDING CHARLOTTE, N. C.

Vat Brown G				1152	
Vat Brown R					
Vat Khaki 2G					122
Vat Navy Blue BN					
Vat Navy Blue RA					
Vat Navy Blue BBF					
Vat Yellow RG .					
Vat Red Brown R .					
These colors when					61.0

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two

dye

line Dye S

Colo Dia Stal

Per

Nac

San

Tri

Mig Hy

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These colors when used for padding should be of the finely ground paste types recommended for padding and printing, as they are preferable to the finely ground water soluble powder types for padding operations.

Some of the chief makers of a portion or all of these colors are:

Trade Name

American Aniline Products, Inc	Amanthrene
E. I. DuPont Co	Ponsol
National Aniline Division	Carbanthrene
Calco Chemical Co	. Calcoloid
General Dyestuff Corp	Indanthrene
Ciba Co	. Cibanone

#### Padding of Vat Color

In padding of vat color prepare stock solution and feed into padder bowl according to color formula.

oz./gallon vat dyestuff paste.

oz./gallon vat dyestuff paste.

0.5 oz./gallon gum for color paste carrier.

0.4 oz./gallon wetting agent (alkali resistant).

Pad at 180° F. at 70-90 yards per minute, run onto shell and enter into prepared jig bath.

Jig Bath-(75 gallons):

Use two to six gallons vat color stock solution, according to depth of shade.

1.25 to 2.5 oz./gallon caustic soda flakes.

1.75 to 3.5 oz./gallon hydro.

Run eight to 12 ends according to depth of shade to obtain good penetration and full color value. Give running cold wash and oxidize in a bichrome and acetic acid bath;



give running cold and hot washes, then soap off at 160-180 F. for two ends. Then give a hot wash and run onto shell ready for drying or on enclosed tenter frame (use 90foot frame if available).

If piece goods vacuum extractor available, run goods over it and supply water repellent is quetsch (pad mangle) before drying and framing to width on tenter frame; otherwise, the dryed goods must be padded with water repellent at 140-160° F., then dryed and framed to width ready for final inspection.

Water Repellent Bath (per 150 gallon mix):

40-70 pounds water repellent compound."

3/4 pound acetic acid.

Pad at 140-160° F. Dry and frame—no other finishing agents are usually given these goods, as they are more desirable in this natural finish.

Appplication of napthols to this prepared rayon-cotton twill is best carried out by padding at 180° F. with Napthol AS-SW Supra, then coupling by jigging with the desired prepared fast color salt or base solution, using a small amount of acetic acid and acid resistant wetting out agent in the jig bath.

This coupling bath should be run around 80-90° F. for eight ends so as to permit satisfactory penetration.

The fast color salt or base must be selected as one that couples completely without any loss of fastness value at 80-90° F. The coupled shade is given a hot soaping for two ends, rinsed, dryed and finished similarly as the vat dved goods.

Some of the products suggested for dyeing napthols on

this goods are:

Napthols:

Napthol AS-SW.

Napthol AS-SR.

Napthol AS-SG (imported type).

Fast Color Salts and Bases:

Fast Ponceau L Base.

Fast Red KB Base.

Fast Bordeaux GP

Fast Red RC

The chief makers of these products are: American Aniline Products, Inc., Calco Chemical Co., DuPont, General Dyestuff Corp., National Aniline Division.

Suitable dispersing and wetting agents for use with fast color salts and bases in the coupling bath are:

Diazopon . . . . . . . . . . . General Dyestuff Corp. Stabilon . . . . . American Aniline Products, Inc.

Suitable alkali resistant penetrants to use for padding and jigging vat colors are:

Peregal O . . . General Dyestuff Corp.
Levelene . . . American Aniline Products, Inc.
Nacconal NR . . . National Aniline Division
Santomerse . . . . Monsanto Chemical Co.
Triton W-30 . . . . . Rohm & Haas Co.

(To be continued)

#### Vinyon Use Altogether Military

The entire output of elastic "Vinyon," manufactured by American Viscose Corp., is currently going into military equipment or into articles connected with war activities, where it is replacing rubber, the company has stated. Considerable quantities are being used by the Army for the canopy suspension cords of jungle hammocks, an application in which the product's ability to resist deterioration caused by heat, humidity and the effects of weather are particularly valuable. The new elastic yarn is also being used in the waistbands of the underwear and exercise uniforms issued to the WAAC, in metatarsal pads used by industrial workers to support the balls of their feet, and in elastic tapes for industrial workers' goggles.

To relieve the shortage of petroleum products on the Eastern seaboard, boxcars are being changed into tankers by the use of cotton bags treated with a synthetic coating.



## VICTOR SERVICE ENGINEERS "SPEAK YOUR LANGUAGE"

Victor representatives are mill-trained men. They understand your problems because they have been up against similar problems while gaining their own experience with spinning and twisting, and other mill processes. Add to that what they learn in daily contact with hundreds of busy mills, and you have a fund of "know how" that is of exceptional value to supervisors in need of helpful advice.

The willing, experienced cooperation of Victor Service Engineers can help you avoid troublesome slowdowns you might otherwise experience.

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#### "FIRING LINES"

On "Firing Lines" the world over, consistent, superior performances are the difference between victory and defeat!

Likewise, the right Ring Traveler's superior per-formance can mean the difference between win-ning and losing the production battle on your Spinning Room "Firing Line"!

Dary is "The Right Traveler"—ask a Dary representative "Why" today!

THE DARY RING TRAVELER CO., Taunton, Mass.

JOHN E. HUMPHRIES, Box 843, Greenville, S. C. JOHN H. O'NEILL, Box 720, Atlanta, Ga. H. REID LOCKMAN, Box 515, Spartanburg, S. C.





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FIRE BRICK

# LONGER

Boiler furnaces lined with CARECO last two to four times longer than those lined with fire brick. Write for quotation."

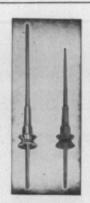
CAROLINA REFRACTORIES CO. Hartsville, S. C.

secializing in TEXTILES FOR MORE THAN A QUARTER OF A CENTURY

WORK LOAD STUDIES PAY ROLL CONTROLS COST REDUCTION SURVEYS SPECIAL REPORTS

GREENVILLE, S.C.

FALL RIVER, MASS.



We Make

#### LONG Blade Spindles from

#### SHORT Blade Spindles

by new perfected method of electric welding, and guarantee all spindles not to break under running condi-

We also change Acorns and Whorls sizes to mill specifications.

#### GOSSETT MACHINE WORKS W. Franklin Ave. Ext., Gastonia, N. C.

#### S. C. Cotton Manufacturers Elect B. F. Hagood President

(Continued from Page 12)

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to tell you that not until I began to look over the last report of the Department of Labor, which covers the period from July 1, 1941, to June 30, 1942, did I realize that we represent such a big part of all industries in this state. In this report I noticed that the value of the product of all industries in South Carolina for this period was \$855,676,000, of which the value of the textiles produced in this state during the same period was \$623,870,000. During this period, all industry paid out in wages \$166,307,000, of which the textile industry paid \$123,560,000. This was an increase of \$36,482,000 over the year before. This \$123,-560,000-was over 74 per cent of the total wages paid by industry in South Carolina during that time. There were employed in all industries 157,345 people, of which the textile industry employed 110,992 people during that year. We consumed in the year 1941-1942, 2,126,177 bales of cotton, which was about five times the number of bales our state produced in 1941 and about three times as many as was produced in 1942. In addition, it is estimated that about 150,000 bales of rayon were used. During this period we produced 4,003,601,774 yards of cloth which was over one-third of all of the cotton cloth produced in the United States during the same time. Our finishing plants have also grown in importance, for during this period they finished 1,121,000,000 yards of goods or 28 per cent of the yardage produced by the mills. When we stop and think what a large part of all industry in this state we represent, as I said before, it is a very sobering thought, and should make us realize more our responsibility to the whole state. We should not glory in the thought of our size and importance but should rather determine that we are going to be more worthy of the responsibility that has been placed upon us. We should give more thought to our labor relations and should strive to make them a model for the whole country. If we set as our goal the Golden Rule and its application and use it in our relations one to the other as employer and employee and really determine to make it work we could in time become this model. For only by the practice of this rule by both employer and employees can we expect peace and harmony to permanently exist throughout our industry.

As our men begin to come back from this war disabled and are dismissed from the Army into civilian life again, it is going to be a problem of this industry to take up its share of the partially disabled. It is going to be our duty to fit these men into our production schemes so that they can earn their own way and feel a pride in their work and not feel that they are a burden on anyone. I do not think it is too soon for us to begin to think very seriously on this matter and to begin to make plans how we can absorb some of them. We owe it to them, for they have sacrificed much

"As I leave you as your president, please let me leave with you these few thoughts or suggestions:

'First—Our responsibility to our state, due to our size.

"Second-The need of talking to our representatives in the legislature and others and acquainting them with our problems.

"Third—Give more thought to your labor relations.

"Fourth-Try to work out some way to absorb your share of the partially disabled veterans who can do some work well."

#### South Carolina Textile Foundation Is Proposed

(Continued from Page 12)

School of Clemson Colege, so as to offer a modern training in all subjects pertaining and essential to business administration and operation, and particularly in textiles.

Making available such added equipment as is needed to this end.

4. Developing and encouraging new curricula for the more practical teaching of greater skill in textiles, higher efficiency in leadership and greater capacity in general executive ability.

5. Encouraging the study, perfection and teaching of sound processes in placement, personnel selection and training, supervision and other industrial functions which have to do with human relationships; developing men who understand men and have their confidence.

6. Affording some form of vocational training or education through short courses or extension service to deserving individuals in the textile industry, who for one reason or another have been denied it, and who have demonstrated ability to profit by such training or education.

7. Developing the textile school at Clemson College (and other supporting educational institutions which can help to build an alert textile leadership) into an educational system worthy of the industry which is served.

8. Preparing the way for an enlightened leadership in the textile industry, a leadership courageous enough and

smart enough and resourceful enough to face the changing times

The foundation would be governed by a board of directors of 16 textile executives elected by the contributing corporations, and operated by a seven-man executive committee chosen by the board. It would be managed by an executive officer named by the board of directors.

According to the objectives listed, "there shall be no official connection between the foundation and any educational institution except that of donor and beneficiary. The foundation shall, where found advisable, contribute for specified purposes. The contribution shall be accepted by the institution upon conditions set by the board of directors of the foundation. No part of the principal of the endowment of the foundation shall inure to the educational institution which is the beneficiary of income from the endowment. Such beneficiary institution shall not have representatives upon the board of directors of the foundation. Textile executives alone shall set the policies of the foundation.

"The objectives and procedures of the foundation shall be changed from time to time by the board of directors, subject to approval of the supporting members on matters of fundamental change."

Cotton fabrics are playing a leading role in the packaging of chemicals as replacements in some instances for steel containers. Some of the bags are made from cotton sheeting or osnaburg, a strong plain weave cotton fabric:



#### Notice to Textile Processors

## Ful-O-Trant XX

A new universal applicative penetrant for all fibers in any form or machine. Technical service available upon request.

#### FULBRIGHT LABORATORIES, INC.

213 EAS' TREMONT AVENUE . CHARLOTTE, N. C.

# MEGIEANSER TEXTILE MILL SCRUBBING POWDER \*\*



established.

Mi-Cleanser enjoys the confidence of many textile mills because of its quality, purity and efficiency. It is available in abrasive and soluble grades for hand or machine scrubbing.

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## STEWART MACHINE CO., Inc. GASTONIA. NORTH CAROLINA

#### WE MANUFACTURE

Spinning and Twister Bolsters, Bases, Whorls, Cast Iron king Holders, Lifting Red Bushings, Doffer Guards, and Bolster Clips.

#### REPAIRING

Bolsters Re-pinned, Bored and Reamed. Bases Reamed. Ring-Rails Bored and Tapped. Ring Holders Re-pinned, Bored Out and Turned Down. Spindles Pointed, Straightened, Polished, Lengthened, Re-topped, Re-whorled, and Whorls Regrooved.

#### OBITUARY

LIEUT. C. B. ROBERTS, JR.

Lieutenant Charles B. Roberts, Jr., former office manager at Bibb Mfg. Co., Columbus, Ga., has been reported missing in action in the South Pacific. He was the pilot of an Army photographic reconnaissance plane.

#### DAN F. CLARK

Dan F. Clark, for the past 16 years overseer of carding at Winnsboro (S. C.) Mills of United States Rubber Co., died May 15. Services were held May 17 at Winnsboro.

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#### ARTHUR J. McMINN

Arthur J. McMinn, superintendent of the Williamston, S. C., plant of Gossett Mills, died recently at the age of 46. He was formerly superintendent of Gossett Mills' Toxaway plant at Anderson, S. C., and was at one time connected with Victor-Monaghan Co.

#### WILLIAM C. KIRKPATRICK

William C. Kirkpatrick, former president and general manager of Virginia Mills, Inc., Swepsonville, N. C., died recently at a Hickory, N. C., hospital. He left the textile industry in 1931 because of his health.

#### FREDERICK KERSHAW

Frederick Kershaw, president of Proctor & Schwartz, Inc., Philadelphia, Pa., died recently at his home after an



Frederick Kershaw

illness of several weeks. He was 58 years of age. Mr. Kershaw had been associated with the firm of Proctor & Schwartz since 1898. He left the firm in 1907 to attend college and was called back to the firm to fill an important position before his graduation. He is survived by his widow, Mrs. Dorothy Huggard Kershaw, and two daughters, Mrs. William Spence Harvey and Mrs. H. Edward Roth, both of Philadelphia.

#### FREDERICK J. ORME

Frederick J. Orme, vice-president and general manager of American Moistening Co., Providence, R. I., died recently. He had been in the service of American Moistening Co. for 36 years.

#### DONALD S. MATHESON

Donald Stuart Matheson, 75, father of John F. Matheson, president of Mooresville (N. C.) Cotton Mills, died suddenly May 31 at his home in Cheraw, S. C. He served for many years as a congressman from his state.

#### Q. R. NOLAN

Q. R. Nolan, 43, plant engineer for Bibb Mfg. Co., died May 25 at his home in Macon, Ga., after an illness of several weeks. He had been employed by Bibb for 22 years.

#### Activities of Smaller War Plants Corp. Are Outlined

Terms of the separation of the Smaller War Plants Division from the War Production Board, and an outline of the functions to be performed in the field by the War Production Board and the Smaller War Plants Corp. were announced recently by WPB.

The responsibilities of the War Production Board and the Smaller War Plants Corp. in the field offices will be divided on the broad principle that the War Production Board will center its activities on production and servicing in all its phases, whereas the Smaller War Plants Corp. will concentrate its activities on location of distressed plants and procurement of business for smaller plants and business concerns, and the corollary services which normally go with those functions.

Each agency will maintain a field organization of its own, but in view of the fact that many of the activities are inter-related, the offices wherever possible are to be located in the same building. However, each is to maintain clearly its separate functional identity, both physically and administratively.

Also announced were the terms of a memorandum issued jointly by Donald M. Nelson, chairman of the War Production Board, and Colonel Robert W. Johnson, chairman, Smaller War Plants Corp., to regional directors of the War Production Board and the Smaller War Plants Corp. defining the respective duties of these directors.

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The regional directors for the Smaller War Plants Corp. are responsible for locating companies which require assistance and for obtaining that assistance in terms of contracts and financial help.

The regional directors of the War Production Board are charged with maintaining a record of facilities of plants in the region, recording the availability in plants of idle tool capacity, maintaing a list of facilities available, furnishing to the Smaller War Plants Corp. upon request engineering reports on the ability of plants to produce a given item or items, and solving production difficulties upon request from an industry division, from a branch of the service, or from a prime contractor. The War Production Board and the Smaller War Plants Corp. will jointly review applications for new facilities, including machine tools, to insure the maximum utilization of existing facilities and machine tools through subcontracting.

#### More Workers At Ranlo Plants

Ranlo Mfg. Co. plants in Gastonia, N. C., which were taken over in 1940 by Burlington Mills Corp. of Greensboro, have since increased the number of employees to approximately 700. In peacetime these plants produce primarily spun rayon for use in high quality dress goods. However, much of the equipment is now turning out yarn for fabrics vitally needed in the war effort, while the rest is producing yarn for use in essential civilian fabrics.

A new and stronger cotton yarn has been developed from short staple cotton. Produced by a combination of chemical and mechanical treatment of cotton, the new product was originally devised to strengthen the cord used in tires. It now has been adapted to the manufacture of parachute harness. The yarn is said to be resistant to weathering.



#### Extra Features That Mean Extra Production

Our line of more than 1,000 styles and sizes of rings offers exclusive designs obtainable only from DIAMOND FINISH. These permit extra high speeds and thereby enable mills to gain extra production from existing machinery. Plan to utilize these extra-production rings wherever possible.

WE MAKE ALL TYPES OF HOLDERS

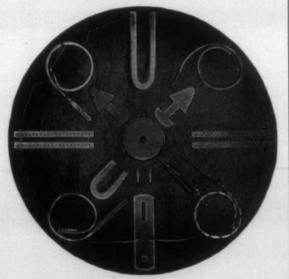
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Makers of Spinning and FINISH



RING CO. Twister Rings since 1873

## RICE DOBBY CHAIN CO.



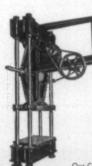
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MACBETH DAYLIGHTING CORP. Color Matching Classing Lamps

#### Rayon's Contribution To War Effort Increasing Rapidly

The rayon industry's participation in, and contribution to, the war effort is increasing month by month, states a recent issue of the Rayon Organon, published by the Textile Economics Bureau, Inc.

Rayon is now going into a wide variety of war products such as tires of all kinds, fragmentation and cargo chutes, uniform linings, etc., states the Organon. In addition to these uses, the industry has been called upon to take over all of the civilian markets formerly supplied by silk and nylon. Staple fiber also is allocated for use in the worsted industry, and more recently has been rated for use by blanket manufacturers. Rayon also is in large demand as a desired product for the southern republics under the Good Neighbor Policy and its exports to these countries is under rating allocation.

"All of these contributions of rayon to the war effort are handled either by rated orders or by allocation," adds the publication. "And, in general terms, all of this rayon must be taken from former civilian goods weavers and knitters inasmuch as it has been impossible to expand spinning capacity of the industry because of a shortage of new equipment facilities.

"During the first quarter of 1943, it is estimated that these allocated and war uses of viscose and cuprammonium rayon yarn took 45 per cent of the total poundage produced. The further conversion of viscose rayon to the high tenacity type of tire cord, as well as increasing uses of viscose and cuprammonium yarns for other uses, will raise the future war and allocated uses of these yarns to substantially higher levels this year."

It is also estimated that about 15 per cent of the acetate rayon yarn output and 15 per cent of the staple fiber output is currently being used for war purposes or allocations and further increases in these percentages are expected as the year progresses.

Rayon has contributed a great deal to the war economy already," the Organon points out, "but its future contribution to the war effort promises to be not only larger in poundage, but also to encompass an even wider range of vital uses and products."

#### Fiber Mill Nearly Complete

The Government's spacious \$300,000 hemp fiber processing mill, rapidly nearing completion five miles west of Winchester, Ky., as yet has not been placed under any Federal agency, and no one is charged with the operation of the plant. Its completion is expected in a few weeks. The Clark County mill, constructed by the Commodity Credit Corp., will be able to handle 4,000 acres of hemp fiber produced on farms within an 18-mile radius of its site.

Army tents made of heavy cotton duck range all the way from "pup" size to hangar size. The most common are the regular Army tents used in camps and pup tents used while the men are on the move. A cotton office tent that can be set up quickly in the field has recently been developed and the air corps uses what is known as a "Panzer Hangar" which covers airplanes while emergency repairs are made.

#### War Plants Should Protect Draft Status Of Employees

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Employers engaged in war production or in activities essential to support of the war effort should file with Selective Service local boards written evidence of their employment of registrants who maintain bona fide homes with children less than 18 years of age, born on or before September 14, 1942, the Selective Service Bureau of the War Manpower Commission emphasized recently. Selective Service Form No. 42-B, which is available at local board offices, should be used for this purpose.

The local board, it was pointed out, thus will be advised of the registrant's employment in an essential activity, and the employer will receive notice of reopening of the registrant's classification any time it is undertaken by the local board. The employer, after receiving such notification, will have opportunity to submit additional evidence of the essentiality of necessary men in his employ.

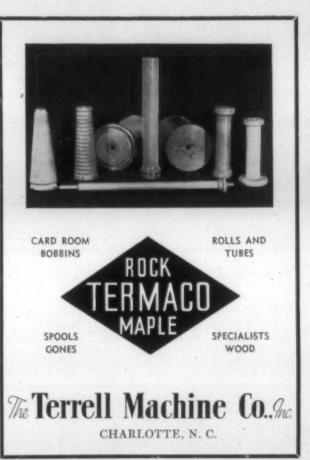
The only fathers now being inducted under the Selective Service Act are those engaged in activities or occupations on the War Manpower Commission's non-deferrable list; farm workers who, without permission of their local board, leave essential agriculture pursuits for which they have been deferred, and fathers whose children were born on or after September 15, 1942. Submission of Form 42-B is urged, however, for men who have a child, or children, with whom they maintain a bona fide family relationiship in their homes, to assure the employer that if the time comes when such registrants are needed in the armed forces he would receive notice of his employees' Selective Service status.

Heretofore, Form 42-B was used by employers to indicate men with dependents engaged in an activity essential to war production or in support of the war effort for whom a Class III-B deferment was requested. However, now that Class III-B, for the designation of such men, has been eliminated, Form 42-B will be filed only for men with children who are in Class III-A.

#### Rayon Vs. The Nazis

Dispatches from the Tunisian front reporting that many German troops were demoralized and driven to surrender by the Allies' use of fragmentation bombs brought satisfaction to many in the United States rayon producing industry, according to the American Viscose Corp. This was because the successful employment of these bombs is made possible by the use of special rayon parachutes. The fragmentation bombs have also been dropped in large numbers to soften up the island of Pantelleria by Lightnings flying at 20 feet above the ground, it is reported.

Fragmentation bombs, sometimes called anti-personnel bombs, are dropped by planes flying at very low levels, and upon detonation scatter their shrapnel-like contents in all directions with terrific force and over a wide area. A hazard for the plane exists in this type of bombing since, because of the low altitude, a bomb might reach the ground and explode so quickly that the plane could not get out of the area affected by the explosion. However, the rayon parachute attached to the bomb delays the descent for a few moments, thus allowing the bomber to get out of range of the destruction it accomplishes.



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#### New Viscose Rayon Staple Fiber Now In Commercial Use

A new viscose rayon staple fiber type described as "varied staple length," which is specially designed for use by the worsted spinning trade, has been developed in the research laboratories of the American Viscose Corp. and is now in commercial use. The new fiber differs from regular types in that each lot manufactured contains fibers that vary in length, instead of all being the same length. As a result there is a carefully calculated distribution of fibers of different lengths closely resembling the distribution or "shoulder" found in natural wool.

The fiber lengths are precision controlled by the producer and at present the product is being offered in several varieties, as, for example, in lots in which the length of the fibers declines gradually and evenly from six to three and one-half inches, from five to three and one-half inches, and from three to two and one-half inches. In all other respects than its varied length staple, the product is the same as standard viscose rayon staple fiber. Those who are familiar with the diagram of a wool top will immediately recognize that this type of rayon staple fiber produces a diagram with the same characteristic "sloping shoulder" as wool.

According to the company, the controlled varied staple length achieved in this product provides a blend of fiber lengths that complements those found in wool to produce a more evenly spun yarn. It is also a distinct aid in achieving a more thorough blending of the rayon fibers with the various wools with which they are used on the worsted system.

An additional advantage claimed for this development is that there are no overlength fibers to be broken in the drawing, and no underlength fibers to add to the noilage. The varied staple length fiber is suitable for both the Bradford and French processes of worsted yarn spinning.

#### Dorton Heads WMC in North Carorlina

Permanent organization of the North Carolina area under the War Manpower Commission has been completed by the appointment of Dr. J. S. Dorton as director, devoting his attention largely to co-ordination of the efforts of the various agencies and to policy-making, and Mrs. Gertrude K. Clinton as assistant director, in charge of field operations.

Mrs. Clinton will also continue as director of the USES for North Carolina, a position she has held for just about a year. Employment offices in the state will continue to operate as they have in the past, the change making little difference in their status or activities.

Dr. Dorton has named three regional chiefs and six area directors of the War Manpower Commission in North Carolina.

E. C. McCracken of Raleigh was named chief of the placement division; W. E. Ryan of Asheville, chief of manpower utilization, and B. Benton Bray of Raleigh, chief of manpower requirements.

The area directors named were: R. B. Justice of Asheville area; Mrs. Ray D. Harmon of Gastonia, Gastonia area; R. M. DeBruyne of High Point, Winston-Salem-Greensboro-High Point area; Henry I. Shepard of Raleigh, southeastern area; P. B. Pollack of Raleigh, Raleigh-Durham area; and R. A. Wadsworth of Raleigh, northeastern area.

#### Rayon Production Off Slightly During First Quarter

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United States production of rayon filament yarn and staple fiber registered a slight drop during the first quarter of 1943, as compared with the record-breaking final quarter of 1942, according to figures made public by the Rayon Organon, published by the Textile Economics Bureau, Inc.

Output of all types of rayon aggregated 160,400,000 pounds in the first quarter this year as compared with 162,100,000 pounds produced in the final quarter of 1942, and 153,900,000 pounds produced in the first quarter last year.

Production of rayon filament yarn alone amounted to 121,500,000 pounds in the first quarter this year, of which 79,800,000 pounds were viscose-cuprammonium yarn and 41,700,000 pounds acetate yarn. Comparisons of production follow:

 Viscose and Cuprammonium
 Acetate
 Total

 1st quarter
 1943
 79,800,000
 41,700,000
 121,500,000

 4th quarter
 1942
 80,400,000
 44,500,000
 124,900,000

 1st quarter
 1942
 75,200,000
 41,900,000
 117,100,000

Staple fiber production amounted to 38,900,000 pounds for the first quarter of 1943 as compared with 37,200,000 pounds in the last quarter of 1942 and 36,800,000 pounds in the first quarter last year.

Shipments of rayon filament yarn to domestic consumers totaled 41,600,000 pounds in April as compared with shipments of 42,800,000 pounds in March and 37,600,000 pounds in April, 1942. April staple fiber shipments totaled 13,200,000 pounds against 14,000,000 pounds shipped in March and 13,000,000 pounds delivered in April, 1942.

Rayon filament yarn stocks in producers' hands on April 30 totaled 6,600,000 pounds against 6,800,000 pounds held on March 31, and 5,400,000 pounds on April 30, 1942. Staple fiber stocks totaled 2,300,000 pounds on April 30 against 2,800,000 pounds held on March 31.

#### U. S. Rubber Develops Army Jungle Boots

A new "kick-the-Jap" boot, giving protection to our soldiers during jungle fighting and hard mountainous marching, was announced recently by United States Rubber Co.

The new footwear was developed by the company's designers, working in collaboration with Army officers in the tropics, in order to give our men foot protection without heat during prolonged work in wet jungles.

High camouflage green colored canvas uppers protect feet and ankles against tropical undergrowth, make it possible for boots to dry out quickly, and withstand frequent soakings. Heavy rubber soles with cleats give essential surefootedness for mountainous marching. Thick duck insole gives greater comfort. Because of special lacings, boots can be pulled on and off easily, and worn partway open.

First work on the new boots was started in March, 1941, at the request of an Army officer in the tropics who was convinced that special footwear was needed for jungle fighting. Shoes were sent to the tropics for severe tests and changes were made as needed. Finally Army officers reported that not only were the marching efficiency and general comfort of soldiers greater, but that the jungle boots outlasted several pairs of regular issue field shoes.

Hundreds of thousands of jairs of jungle boots have already been delivered, and many more are being made in a New England plant of United States Rubber Co.

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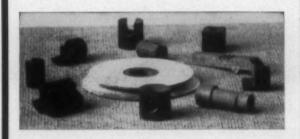
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ACME STEEL CO., 2838 Archer Ave., Chicago, Ill. Sou. Office and Warehouse, 603 Stewart Ave., S.W., Atlanta, Ga., F. H. Webb, Dist. Mgr. Sou. Sales Reps.; C. A. Carrell, 533 Clairmont Ave., Decatur, Ga., Phone Dearborn 6267; K. J. Pedersen, 301 W. 10th St. (Tell. 2-293); Charlotte, N. C.; William G. Polley, 937 Cherokee Lane, Signal Moutitain, Tenn., Phone Chattanooga 8-2635; John C. Brill, 309 Magazine St., New Orleans, La., Phone Magnolia 5859. Warehouses at Atlanta, Ga., Greenville, S. C., New Orleans, La.

AKRON BELTING CO., THE, Akron, O. Sou. Reps.: Ralph Gossett and Wm. J. Moore, 15 Augusta St., Greenville, S. C.; The Akron Belting Co., 406 S. 2nd St., Memphis, Tenn.

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AMERICAN BLOWER CORP., P. O. Box 58, Roosevelt Park Annex. Detroit. Mich. 7 N. 6th St., Richmond., Va.; 1211 Commercial Bank Bldg., Charlotte, N. C.; Room 714, 101 Marietta St. Bldg., Atlanta, Ga.; Room 309, Jahncke Bldg., 816 Howard Ave., New Orleans, I.a.; 619 Texas Bank Bldg., Dallas, Tex.; 312 Keller Bldg., Houston, Tex.

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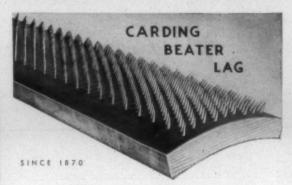
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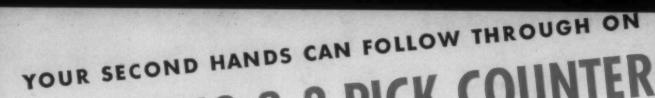
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